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January 27, 2005

Mr. Don Pettit
Oregon Department of Environmental Quality
2020 SW Fourth Ave., Suite 400
Portland, OR 97201

**Re: Groundwater Monitoring/Project Status Update Report
Fourth Quarter 2004
Kinder Morgan Liquid Terminals, LLC
Linnton Terminal
Portland, Oregon
DEQ No. WPMVC-WMCVC-NWR-00-17
Delta Project No. PTKM-001-8**

Dear Mr. Pettit:

Delta Environmental Consultants, Inc. (Delta) has prepared this groundwater monitoring/project status update report on behalf of Kinder Morgan Liquid Terminals, LLC (KMLT) for the KMLT Linnton Terminal located at 11400 NW St. Helens Road in Portland, Oregon (Figure 1). Quarterly groundwater monitoring is currently being conducted at the site in accordance with the Remedial Investigation (RI) Work Plan dated February 2002. Field procedures were performed in accordance with Delta's standard operating procedures for quality assurance and quality control (QA/QC).

SCOPE OF WORK

The following scope of work was conducted as part of the fourth quarter 2004 groundwater monitoring and sampling event and the installation and operation of the Interim Remedial Action Measures (IRAM) system.

- On November 1, 2004, 33 groundwater monitoring wells and piezometers were monitored, and 14 wells were sampled.
- Monthly separate phase hydrocarbon (SPH) recovery was performed on each well containing SPH that is not included in the IRAM Area Containment system during the reporting period.



- Checked absorbent booms weekly during October, November and December 2004.
- Continued operation and Maintenance (O&M) of IRAM System.

METHODS AND PROCEDURES

Groundwater monitoring field activities conducted on November 1, 2004 consisted of collecting water level measurements in Wells MW-1 through MW-24, P-1, P-2, P-4, P-5 and RW-1 through RW-5 as well as measuring parameters and collecting samples from Wells MW-4, MW-7, MW-8, MW-9, MW-12 through MW-18, MW-22, MW-23 and MW-24. The approximate site boundaries, site structures and the approximate locations of the monitoring wells are presented in Figure 2.

The parameters measured in the wells consisted of water level measurements, pH, specific conductance and temperature. The static water levels were measured in Wells MW-1, MW-2, MW-3, MW-4, MW-7 through MW-10, MW-12 through MW-24, P-1, P-2, P-4, P-5, RW-1 through RW-5 on November 1, 2004. A depth-to-water measurement could not be attained from Well MW-11 due to the fouling of the probe by the relatively high viscosity SPH layer in that well.

Water level measurements were obtained by slowly lowering an electronic water level indicator into the well until the instrument indicated that the groundwater surface had been encountered. The measurement was made from a location permanently marked on the top of the casing to within the nearest 0.01 foot. If SPH was present in any of the monitoring wells, the thickness of the layer was measured and recorded. Each water level measurement was repeated at least once to verify the accuracy of the initial measurement.

All measurements were recorded on field sampling forms (Attachment A). Prior to collecting groundwater samples, each monitoring well to be sampled was purged of at least three casing volumes of water. All 14 wells sampled were purged using clean, disposable bailers and new nylon cord or using a centrifugal pump with disposal tubing. Prior to sampling, the wells were allowed to recover to approximately 80% or more of static water level. A total volume of approximately 63 gallons of water was purged from the wells.

After purging each monitoring well, groundwater samples were collected using new disposable bailers. The water samples were placed in laboratory-prepared containers and each sample was appropriately labeled so as to identify the sample number, project name, facility number, the date and time of sample collection and the sampler's name. Each sample was immediately placed in a chilled cooler for storage, and samples were transported to the laboratory using strict chain-of-custody protocols.

ANALYTICAL METHODS

Collected groundwater samples were submitted to North Creek Analytical of Beaverton, Oregon on November 2, 2004 and analyzed for the following:

- Gasoline range hydrocarbons (TPH-Gx) by NW TPH-Gx Method.
- Diesel and heavy oil range hydrocarbons (TPH-Dx) by NW TPH-Dx Method.
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8021B.
- Polyaromatic hydrocarbons (PAHs) by EPA Method 8270M-SIM.
- Total metals by EPA 6000/7000 Series Methods.

RESULTS OF QUARTERLY MONITORING

Groundwater Elevation and Flow Direction

Depth to groundwater in the measured wells ranged from 11.51 feet below top of casing in Well MW-16 to 24.04 feet below top of casing in Well MW-18. SPH was measured in 15 wells during the fourth quarter monitoring event (MW-1, MW-2, MW-3, MW-10, MW-11, MW-19, MW-20, MW-21, P-4, P-5 and RW-1 through RW-5). SPH ranged from 0.04 foot in Well MW-3 to 2.47 feet in Well RW-1. The current and historic groundwater elevation data have been summarized in Table 1.

Based on the groundwater level measurements taken during this monitoring event, the groundwater flow direction appears to be generally to the northeast, toward the Willamette River. Generally, the groundwater flow direction is consistent with those of past monitoring events. Figure 2 illustrates the approximate water level elevation contours and gradient based upon measurements collected on November 1, 2004.

Groundwater Analytical Results

Benzene was detected above the laboratory method reporting limit (MRL) in six wells at concentrations ranging from 0.956 micrograms per liter ($\mu\text{g}/\text{L}$) in Well MW-22 to 423 $\mu\text{g}/\text{L}$ in Well MW-9. Toluene, ethylbenzene, and xylene concentrations are generally consistent with the past monitoring events.

PAHs were detected above the laboratory MRL in eight wells at concentrations ranging from 0.127 $\mu\text{g}/\text{L}$ of chrysene in Well MW-22 to 99.6 $\mu\text{g}/\text{L}$ of acenaphthene in Well MW-8. Detected PAH concentrations are generally similar to historical analytical results. A summary of the PAH analytical results is presented in Table 3.

Concentrations of total petroleum hydrocarbons (TPH) as gasoline were detected above laboratory MRLs in seven of the 14 sampled wells, ranging from 193 $\mu\text{g}/\text{L}$ in MW-4 to 2,440 $\mu\text{g}/\text{L}$ in Well MW-16. Concentrations of TPH as diesel were detected above laboratory MRLs in ten of the sampled wells, ranging from 272 $\mu\text{g}/\text{L}$ in Well MW-17 to

37,200 µg/L in Well MW-12. TPH as heavy oil was detected above the laboratory MRL in a sample from four of the wells sampled ranging from 512 µg/L in Well MW-22 to 9,640 µg/L in Well MW-24. The laboratory analytical results for TPH are presented in Table 2.

Concentrations of total metals were detected above the laboratory MRL in all 14 sampled wells. Concentrations ranged from 0.00023 mg/L of mercury in Well MW-14 to 5.29 mg/L of barium in Well MW-13. The total metal concentrations were typical of previous sampling events. The analytical results for metals are presented in Table 4.

Based on a review of the laboratory reports, it appears that the submitted water samples were analyzed within the specified holding times, and that the appropriate QA/QC procedures were followed during analysis. A summary of the laboratory analytical results is presented in Tables 2, 3 and 4. A complete copy of the laboratory report and chain-of-custody documentation is included in Attachment B.

Monthly SPH Recovery

Manual bailing of SPH was conducted at the site once a month during October, November and December 2004. SPH bailing was conducted on the following wells: MW-1, MW-2, MW-3, MW-10, MW-11, MW-20, and MW-21. An approximate total of nine gallons of SPH were recovered during the fourth quarter of 2004 by manual bailing. Table 1 shows the amount of SPH bailed from each well over the three-month period (fourth quarter).

IRAM System O&M Activities

The IRAM area containment system was constructed at the site during April through July 2004. The IRAM system extracts groundwater and SPH from five previously installed recovery wells (RW-1 through RW-5) using a two-pump system configuration. In addition, SPH is continuously skimmed off the groundwater surface in Wells MW-2 and MW-19 using a SPH-only pump. Groundwater extraction from the five recovery wells is accomplished using electric submersible pumps. SPH is recovered in each of the five recovery wells and the two monitoring wells (MW-2 and MW-19) using pneumatic pumps equipped with floating intake screens. The SPH is pumped to a holding tank prior to transport to a product recycler. The extracted groundwater is first pumped through a 40-cubic-foot sand filter to remove particulates that may clog the carbon vessels. The effluent from the sand filter is pumped through two 2,000 lb carbon vessels prior to discharge to the Willamette River in accordance with existing NPDES Permit File No. ORG 910059.

On July 26, 2004, Delta initiated continuous operation of the IRAM area containment system. Currently, O&M site visits are conducted twice a week. During these visits, the system operation is monitored and the system components are adjusted or maintained as needed. System adjustments and maintenance checks involve tasks such as cleaning pump control sensors, removing collected SPH from the storage tank, backflushing the carbon vessels and sand filter, cleaning the batch tank and controls, checking the operation of the groundwater and SPH pumps, adjusting flow rates, and

compliance sampling. Measurements and readings recorded during each of the site visits are as follows:

- Pressure readings at the manifold, sand filter, and both carbon vessels.
- Flow totals for each of the recovery wells.
- Transducer readings (Liquid level in each well).
- Operating electrical frequency.
- SPH level in the product storage tank.

In addition, the condition of the hard boom and absorbent booms are checked and noted in the field notes. The field technician also checks for the presence or absence of a sheen within the boomed area.

This information is used to evaluate the performance of the system. During the fourth quarter of 2004 (the second quarter the IRAM system was operated), approximately 150 gallons of SPH have been recovered from the subsurface during October, November and December 2004. This product and additional recovered product was removed from the site in January, 2005. In addition, the liquid level data collected during each of the visits indicate that the pumping has lowered the groundwater level immediately adjacent to the recovery wells. Delta will continue to monitor the liquid levels during the first quarter of 2005 and will adjust the flow rates of the pumps to attempt to maximize the groundwater capture zone of the IRAM system.

ACTIVITIES SCHEDULED FOR THE FIRST QUARTER OF 2005

- Perform monthly SPH removal from wells that have historically contained SPH.
- Sample selected monitoring wells during the January 2005 sampling event (first quarter event).
- Perform weekly inspections of the containment booms in the seep area.
- Continue O&M of the IRAM area containment system.

CONCLUSIONS

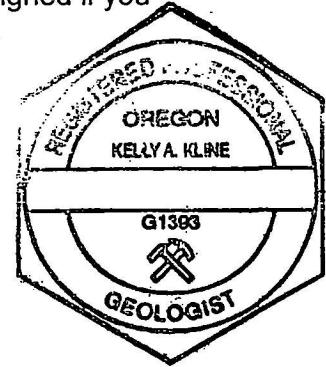
Groundwater will continue to be monitored on a quarterly basis. The next sampling event will be conducted during the first quarter 2005. Delta will continue operation and maintenance of the IRAM system. The system has been effectively removing SPH from the subsurface. Delta will continue to monitor and adjust the system to maximize the recovery of groundwater and SPH.

Please contact Mr. Steve Osborn of KMLT at (707) 249-1633 or the undersigned if you have any questions regarding this report or any other aspect of this project.

Sincerely,
Delta Environmental Consultants, Inc.



Kelly A. Kline, R.G.
Senior Geologist



Attachments: Table 1 - Groundwater Elevation and SPH Data
Table 2 - Groundwater Sample Analytical Results- TPH, BTEX-N
Table 3 - Groundwater Sample Analytical Results- PAHs
Table 4 - Groundwater Sample Analytical Results- Total Metals
Figure 1 - Site Location Map
Figure 2 - Groundwater Elevation Contours and SPH Thickness

Attachment A - Field Forms

Attachment B - Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Steve Osborn, KMEP
Ms. Esther Lee, KMEP (file copy)
Mr. Wally Stevenson, KMEP
Mr. Gregg Lies, KMEP

TABLE 1
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals LLC
Linnton Terminal
Portland, Oregon

Well Identification	Date Gauged (TOC)	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation ¹ (ft)	Recovered by Quarter (gallons)
MW-1	02/01/02	13.34	13.34	sheen	14.64	-
(27.98)	04/24/02	13.26	13.26	sheen	14.72	-
	07/29/02	15.82	15.80	0.02	12.18	0.41
	10/29/02	18.41	18.40	0.01	9.58	-
	11/26/02*	17.91	17.81	0.10	10.15	-
	12/30/02	15.63	15.63	sheen	12.35	0.56
	01/28/03	15.15	NP	0.00	12.83	0.00
	04/29/03	13.15	NP	0.00	14.83	0.00
	07/29/03 ²	16.31	16.31	sheen	11.67	0.60
	10/28/03	17.35	17.18	0.17	10.77	-
	01/29/04	13.30	13.20	0.10	14.76	1.80
	04/28/04	15.84	15.73	0.11	12.23	0.30
	07/26/04	17.33	17.18	0.15	10.77	0.50
	11/01/04	17.72	17.14	0.58	10.72	0.60
MW-2	01/29/02	14.27	13.60	0.67	14.74	2.50
(28.47)	04/24/02	13.96	13.37	0.59	14.98	0.55
	07/29/02	16.50	16.16	0.34	12.24	1.20
	10/29/02	18.93	18.92	0.01	9.55	1.30
	11/26/02*	18.82	18.52	0.30	9.89	-
	12/30/02	16.81	16.33	0.48	12.04	-
	01/28/03	16.04	15.70	0.34	12.70	0.65
	04/29/03	13.81	13.27	0.54	15.09	1.10
	07/29/03	17.23	16.92	0.31	11.49	5.00
	10/28/03	19.53	17.58	1.95	10.50	-
	01/29/04	14.48	13.31	1.17	14.93	4.20
	07/26/04	15.34	15.05	0.29	13.36	0.20
	11/01/04	17.03	14.86	2.17	13.18	IRAM Sys
MW-3	01/29/02	13.04	12.86	0.18	16.07	0.25
(28.97)	04/24/02	13.11	13.00	0.11	15.95	0.40
	07/29/02	14.69	14.42	0.27	14.50	0.55
	10/29/02	16.11	NP	Sheen	12.86	0.51
	11/26/02*	16.08	15.72	0.36	13.18	-
	01/28/03	14.15	14.07	0.08	14.88	0.35
	04/29/03	12.75	12.71	0.04	16.25	0.45
	07/29/03	15.03	14.83	0.20	14.10	1.05
	10/28/03	15.58	15.51	0.07	13.45	-
	01/29/04	12.87	12.84	0.03	16.12	0.20
	04/28/04	14.05	14.00	0.05	14.46	0.25
	07/26/04	15.24	15.14	0.10	13.31	0.20
	11/01/04	15.29	15.25	0.04	13.21	0.20
MW-4	02/01/02	17.74	NP	0.00	15.14	-
(32.88)	04/24/02	17.49	NP	0.00	15.39	-
	07/29/02	20.19	NP	0.00	12.69	-
	10/29/02	22.72	NP	0.00	10.16	-
	01/28/03	19.82	NP	0.00	13.06	-
	04/29/03	17.29	NP	0.00	15.59	-
	07/29/03	20.54	NP	0.00	12.34	-
	10/28/03	21.67	NP	0.00	11.21	-
	01/29/04	17.71	NP	0.00	15.17	-
	04/28/04	20.21	NP	0.00	12.67	-
	07/26/04	21.74	NP	0.00	11.14	-
	11/01/04	21.75	NP	0.00	11.13	-

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Linnton Terminal
Portland, Oregon

Well Identification (TOC)	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation ¹ (ft)	Recovered by Quarter (gallons)
MW-5 (40.08)	01/31/02	21.73	NP	0.00	18.35	-
	04/24/02	21.76	NP	0.00	18.32	-
	07/29/02	23.87	NP	0.00	16.21	-
	10/29/02	DRY	NP	0.00	DRY	-
	01/28/03	23.81	NP	0.00	16.27	-
	04/29/03	20.95	NP	0.00	19.13	-
	07/29/03	24.46	NP	0.00	15.62	-
	10/28/03	DRY	NP	0.00	DRY	-
	01/29/04	21.91	NP	0.00	18.17	-
	04/28/04	23.21	NP	0.00	16.87	-
	07/26/04	Dry	NP	0.00	-	-
	11/01/04	Dry	NP	0.00	-	-
MW-6 (36.93)	02/01/02	16.77	NP	0.00	20.16	-
	04/24/02	17.82	NP	0.00	19.11	-
	07/29/02	20.85	NP	0.00	16.08	-
	10/29/02	21.51	NP	0.00	15.42	-
	01/28/03	19.72	NP	0.00	17.21	-
	04/29/03	15.88	NP	0.00	21.05	-
	07/29/03	DRY	NP	0.00	DRY	-
	10/28/03	21.61	NP	0.00	15.32	-
	01/29/04	16.59	NP	0.00	20.34	-
	04/28/04	19.72	NP	0.00	17.21	-
	07/26/04	Dry	NP	0.00	-	-
	11/01/04	21.58	NP	0.00	-	-
MW-7 (32.26)	01/31/02	17.74	NP	0.00	14.52	-
	04/24/02	17.81	NP	0.00	14.45	-
	07/29/02	20.06	NP	0.00	12.20	-
	10/29/02	22.40	NP	0.00	9.86	-
	01/28/03	19.02	NP	0.00	13.24	-
	04/29/03	16.23	NP	0.00	16.03	-
	07/29/03	20.52	NP	0.00	11.74	-
	10/28/03	21.41	NP	0.00	10.85	-
	01/29/04	16.49	NP	0.00	15.77	-
	04/28/04	19.78	NP	0.00	12.48	-
	07/26/04	21.30	NP	0.00	10.96	-
	11/01/04	21.31	NP	0.00	10.95	-
MW-8 (30.06)	02/01/02	17.01	NP	0.00	13.05	-
	04/24/02	16.58	NP	0.00	13.48	-
	07/29/02	19.32	NP	0.00	10.74	-
	10/29/02	20.83	NP	0.00	9.23	-
	01/28/03	18.47	NP	0.00	11.59	-
	04/29/03	16.93	NP	0.00	13.13	-
	07/29/03	20.06	NP	0.00	10.00	-
	10/28/03	20.43	NP	0.00	9.63	-
	01/29/04	17.00	NP	0.00	13.06	-
	04/28/04	19.59	NP	0.00	10.47	-
	07/26/04	20.31	NP	0.00	9.75	-
	11/01/04	20.30	NP	0.00	9.76	-

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MW-9 (30.45)	02/01/02	15.25	NP	0.00	15.20	-	
	04/24/02	15.49	NP	0.00	14.96	-	
	07/29/02	16.71	NP	0.00	13.74	-	
	10/29/02	18.77	NP	0.00	11.68	-	
	01/28/03	16.35	NP	0.00	14.10	-	
	04/29/03	14.31	NP	0.00	16.14	-	
	07/29/03	17.55	NP	0.00	12.90	-	
	10/28/03	18.44	NP	0.00	12.01	-	
	01/29/04	14.67	NP	0.00	15.78	-	
	04/28/04	16.59	NP	0.00	13.86	-	
	07/26/04	17.91	NP	0.00	12.54	-	
	11/01/04	18.20	NP	0.00	12.25	-	
MW-10 (30.32)	02/01/02	11.84	NP	0.00	18.48	-	
	04/24/02	14.00	NP	0.00	16.32	-	
	07/29/02	18.08	17.03	1.05	13.08	0.50	
	10/29/02	20.86	20.72	0.14	9.57	0.13	
	11/26/02*	19.82	19.81	0.01	10.51	-	
	01/28/03	13.84	13.61	0.23	16.66	0.20	
	04/29/03	14.36	NP	0.00	15.96	0.01	
	07/29/03	18.51	NP	0.00	11.81	0.01	
	10/28/03	18.28	NP	0.00	12.04	-	
	01/29/04	12.59	12.28	0.31	17.98	0.40	
	04/28/04	16.51	16.51	Sheen	11.96	0.10	
	07/26/04	19.55	19.55	Sheen	10.77	0.30	
	11/01/04	17.89	17.85	0.31	12.68	0.20	
MW-11 (35.03)	01/29/02	19.06	NP	0.00	15.97	0.17	
	04/24/02	18.91	18.48	0.43	16.46	0.25	
	07/29/02	22.02	20.75	1.27	14.03	0.95	
	10/29/02	25.50	23.20	2.30	11.37	1.95	
	11/26/02*	25.10	23.05	2.05	11.57	-	
	01/28/03	21.00	20.65	0.35	14.31	0.45	
	04/29/03	20.06	18.55	1.51	16.18	0.60	
	07/29/03	-	21.15	>3.0	-	0.65	
	10/28/03	-	22.30	-	-	-	
	01/29/04	-	18.99	-	-	0.40	
	04/28/04	-	19.42	-	-	2.35	
	07/26/04	-	21.41	-	-	0.95	
	11/01/04	-	22.55	-	-	5.25	
MW-12 (34.03)	01/31/02	14.85	NP	0.00	19.18	-	
	04/24/02	15.32	NP	0.00	18.71	-	
	07/29/02	16.77	NP	0.00	17.26	-	
	10/29/02	17.99	NP	0.00	16.04	-	
	01/28/03	16.21	NP	0.00	17.82	-	
	04/29/03	14.99	NP	0.00	19.04	-	
	07/29/03	16.56	NP	0.00	17.47	-	
	10/28/03	17.61	17.60	0.01	16.43	-	
	01/29/04	14.98	NP	0.00	19.05	-	
	04/28/04	15.76	NP	0.00	18.27	-	
	07/26/04	16.97	NP	0.00	17.06	-	
	11/01/04	17.57	NP	0.00	16.46	-	

TABLE 1
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
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Linnton Terminal
Portland, Oregon

Well Identification (TOC)	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation ¹ (ft)	Recovered by Quarter (gallons)	SPH
MW-13 (35.81)	01/31/02	17.67	NP	0.00	18.14	-	
	04/24/02	18.35	NP	0.00	17.46	-	
	07/29/02	19.35	NP	0.00	16.46	-	
	10/29/02	25.42	NP	0.00	10.39	-	
	01/28/03	20.52	NP	0.00	15.29	-	
	04/29/03	17.41	NP	0.00	18.40	-	
	07/29/03	21.47	NP	0.00	14.34	-	
	10/28/03	24.25	NP	0.00	11.56	-	
	01/29/04	17.97	NP	0.00	17.84	-	
	04/28/04	20.22	NP	0.00	15.59	-	
	07/26/04	22.07	NP	0.00	13.74	-	
	11/01/04	23.90	NP	0.00	11.91	-	
MW-14 (36.54)	01/31/02	17.71	NP	0.00	18.83	-	
	04/24/02	18.42	NP	0.00	18.12	-	
	07/29/02	21.47	NP	0.00	15.07	-	
	10/29/02	23.99	NP	0.00	12.55	-	
	01/28/03	20.62	NP	0.00	15.92	-	
	04/29/03	16.91	NP	0.00	19.63	-	
	07/29/03	22.26	NP	0.00	14.28	-	
	10/28/03	23.68	NP	0.00	12.86	-	
	01/29/04	17.79	NP	0.00	18.75	-	
	04/28/04	19.94	NP	0.00	16.60	-	
	07/26/04	22.72	NP	0.00	13.82	-	
	11/01/04	23.45	NP	0.00	13.09	-	
MW-15 (37.15)	01/31/02	15.12	NP	0.00	22.03	-	
	04/24/02	16.13	NP	0.00	21.02	-	
	07/29/02	19.93	NP	0.00	17.22	-	
	10/29/02	22.59	NP	0.00	14.56	-	
	01/28/03	18.26	NP	0.00	18.89	-	
	04/29/03	14.28	NP	0.00	22.87	-	
	07/29/03	20.63	NP	0.00	16.52	-	
	10/28/03	22.41	NP	0.00	14.74	-	
	01/29/04	14.80	NP	0.00	22.35	-	
	04/28/04	18.42	NP	0.00	18.73	-	
	07/26/04	21.19	NP	0.00	15.96	-	
	11/01/04	22.10	NP	0.00	15.05	-	
MW-16 (38.95)	01/31/02	8.91	NP	0.00	30.04	-	
	04/24/02	11.04	NP	0.00	27.91	-	
	07/29/02	11.93	NP	0.00	27.02	-	
	10/29/02	12.85	12.75	0.10	26.18	0.11	
	11/26/02*	12.05	12.00	0.05	26.94	-	
	01/28/03	10.11	NP	0.00	28.84	-	
	04/29/03	9.85	NP	0.00	29.10	-	
	07/29/03	12.14	NP	0.00	26.81	-	
	10/28/03	11.83	NP	0.00	27.12	-	
	01/29/04	9.23	NP	0.00	29.72	-	
	04/28/04	11.12	NP	0.00	27.83	-	
	07/26/04	12.17	12.17	Sheen	26.78	-	
	11/01/04	11.51	NP	0.00	27.44	-	

TABLE 1
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

Well Identification	Date Gauged (TOC)	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation ¹ (ft)	Recovered by Quarter (gallons)
MW-17	01/31/02	16.93	NP	0.00	19.64	-
(36.57)	04/24/02	17.83	NP	0.00	18.74	-
	07/29/02	20.83	NP	0.00	15.74	-
	10/29/02	23.38	NP	0.00	13.19	-
	01/28/03	19.87	NP	0.00	16.70	-
	04/29/03	16.04	NP	0.00	20.53	-
	07/29/03	21.59	NP	0.00	14.98	-
	10/28/03	23.15	NP	0.00	13.42	-
	01/29/04	16.16	NP	0.00	20.41	-
	04/28/04	19.80	NP	0.00	16.77	-
	07/26/04	22.08	NP	0.00	14.49	-
	11/01/04	22.91	NP	0.00	13.66	-
MW-18	04/24/02	19.41	NP	0.00	17.25	-
(36.66)	07/30/02	22.21	NP	0.00	14.45	-
	10/29/02	24.71	NP	0.00	11.95	-
	01/28/03	21.20	NP	0.00	15.46	-
	04/29/03	17.85	NP	0.00	18.81	-
	07/29/03	23.02	NP	0.00	13.64	-
	10/28/03	24.28	NP	0.00	12.38	-
	01/29/04	18.45	NP	0.00	18.21	-
	04/28/04	21.51	NP	0.00	15.15	-
	07/26/04	23.46	NP	0.00	13.20	-
	11/01/04	24.04	NP	0.00	12.62	-
MW-19	04/29/03	14.88	14.80	0.08	15.52	3.00
(30.34)	07/29/03	19.75	17.94	1.81	12.04	8.50
	10/28/03	20.08	18.88	1.20	11.22	-
	01/29/04	13.71	13.47	0.24	16.82	1.65
	04/28/04	18.65	17.48	0.24	11.88	-
	07/26/04	16.70	16.44	0.26	13.85	IRAM Sys
	11/01/04	16.99	16.58	0.41	13.68	IRAM Sys
MW-20	04/29/03	13.42	NP	0.00	16.83	-
(30.25)	07/29/03	18.26	NP	0.00	11.99	-
	10/28/03	19.60	19.49	0.11	10.74	-
	01/29/04	13.75	12.42	1.33	17.56	4.75
	04/28/04	16.51	16.01	0.50	12.36	-
	07/26/04	18.65	18.32	0.33	10.08	0.60
	11/01/04	18.30	18.07	0.23	10.35	1.90
MW-21	04/29/03	8.12	NP	0.00	22.50	-
(30.62)	07/29/03	17.02	NP	0.00	13.60	-
	10/28/03	18.62	18.36	0.26	12.21	-
	01/29/04	9.98	9.78	0.20	20.80	1.00
	04/28/04	15.72	15.67	0.05	12.79	0.10
	07/26/04	17.84	17.83	0.01	10.64	0.20
	11/01/04	16.93	16.89	0.04	11.57	0.30
MW-22	04/29/03	15.61	NP	0.00	14.58	-
(30.19)	07/29/03	19.75	NP	0.00	10.44	-
	10/28/03	20.33	NP	0.00	9.86	-
	01/29/04	14.88	NP	0.00	15.31	-
	04/28/04	18.69	NP	0.00	11.50	0.05
	07/26/04	20.14	NP	0.00	10.05	-
	11/01/04	20.11	NP	0.00	10.08	-

TABLE 1
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals LLC
Linnton Terminal
Portland, Oregon

Well Identification (TOC)	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation ¹ (ft)	Recovered by Quarter (gallons)	SPH
MW-23							-
	11/01/04	14.15	NP	0.00			
MW-24							
	11/01/04	9.22	Sheen	0.00			-
P-1	01/31/02	-	NP	0.00	-	-	
(37.89)	04/24/02	19.31	NP	0.00	18.58	-	
	07/30/02	19.72	NP	0.00	18.17	-	
	10/29/02			Unable to Locate			
	01/28/03	19.67	NP	0.00	18.22	-	
	04/29/03	17.71	NP	0.00	20.18	-	
	07/29/03	19.94	NP	0.00	17.95	-	
	10/28/03	19.97	NP	0.00	17.92	-	
	01/29/04	17.36	NP	0.00	20.53	-	
	04/28/04	19.95	NP	0.00	17.94	-	
	07/26/04	20.20	NP	0.00	17.69	-	
	11/01/04	19.60	NP	0.00	18.29	-	
P-2	01/31/02	-	NP	0.00	-	-	
(36.54)	04/24/02	13.99	NP	0.00	22.55	-	
	07/30/02	15.55	NP	0.00	20.99	-	
	10/29/02	16.52	NP	0.00	20.02	-	
	01/28/03	14.66	NP	0.00	21.88	-	
	04/29/03	12.98	NP	0.00	23.56	-	
	07/29/03	15.10	NP	0.00	21.44	-	
	10/28/03	11.15	NP	0.00	25.39	-	
	01/29/04	13.00	NP	0.00	23.54	-	
	04/28/04	14.17	NP	0.00	22.37	-	
	07/26/04	15.70	NP	0.00	20.84	-	
	11/01/04	16.27	NP	0.00	20.27	-	
P-3	01/29/02	16.93	NP	0.00	16.60	-	
(33.53)	04/24/02	17.58	NP	0.00	15.95	-	
	07/30/02	18.90	NP	0.00	14.63	-	
	10/29/02	19.68	NP	0.00	13.85	-	
	01/28/03	18.16	NP	0.00	15.37	-	
	04/29/03	17.29	NP	0.00	16.24	-	
	07/29/03	18.81	NP	0.00	14.72	-	
	10/28/03	19.26	NP	0.00	14.27	-	
	01/29/04	17.24	NP	0.00	16.29	-	
	04/28/04	18.21	NP	0.00	15.32	-	
	07/26/04	19.01	NP	0.00	14.52	-	
	11/01/04	NM	NM	NM	NM	-	
P-4	01/29/02	16.60	NP	0.00	15.15	-	
(31.75)	04/24/02	15.91	NP	0.00	15.84	-	
	07/30/02	17.18	16.90	0.28	14.79	-	
	10/29/02	22.26	NP	0.00	DRY	-	
	01/28/03	18.08	17.98	0.10	13.75	-	
	04/29/03	15.55	NP	0.00	16.20	-	
	07/29/03	18.73	NP	0.00	13.02	-	
	10/28/03	19.48	19.40	0.08	12.33	-	
	01/29/04	16.99	16.87	0.12	14.86	-	
	04/28/04	17.94	NP	0.00	13.81	-	
	07/26/04	19.43	NP	0.00	12.32	-	
	11/01/04	19.98	19.97	0.01	11.78	-	

TABLE 1
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

Well Identification (TOC)	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation ¹ (ft)	Recovered by Quarter (gallons)
P-5	01/29/02	14.41	NP	0.00	15.34	-
(29.75)	04/24/02	14.40	NP	0.00	15.35	-
	07/30/02	16.35	16.31	0.04	13.43	-
	10/29/02	18.09	18.17	0.08	11.72	-
	01/28/03	14.96	14.95	0.01	14.80	-
	04/29/03	14.61	14.60	0.01	15.15	-
	07/29/03	19.98	17.96	2.02	11.39	-
	10/28/03	18.48	18.15	0.33	11.53	-
	01/29/04	14.00	NP	0.00	15.75	-
	04/28/04	16.73	NP	0.00	13.02	-
	07/26/04	-	-	-	-	-
	11/01/04	18.39	17.43	0.96	12.13	-
RW-1	10/30/02	19.36	NP	0.00	9.30	0.65
(28.66)	11/26/02*	18.92	18.58	0.34	10.01	-
	01/28/03	16.19	15.94	0.25	12.67	1.65
	04/29/03	14.13	13.67	0.46	14.90	1.05
	07/29/03	18.70	17.04	1.66	11.29	9.00
	10/28/03	18.70	17.80	0.90	10.68	-
	01/29/04	19.20	13.10	6.10	14.34	27.00
	07/26/04	18.20	17.58	0.62	10.96	IRAM Sys
	11/01/04	26.35	23.88	2.47	4.29	IRAM Sys
RW-2	10/30/02	19.48	NP	0.00	9.49	0.90
(28.97)	11/26/02*	18.93	18.82	0.11	10.13	-
	01/28/03	19.77	15.86	3.91	12.33	17.25
	04/29/03	17.36	13.73	3.63	14.51	6.75
	07/29/03	19.54	17.23	2.31	11.28	9.00
	10/28/03	18.47	18.23	0.24	10.69	-
	01/29/04	19.37	13.57	5.80	14.24	33.00
	07/26/04	-	17.00	-	-	IRAM Sys
	11/01/04	22.17	20.35	1.82	8.26	IRAM Sys
RW-3	10/30/02	22.11	19.50	2.61	9.21	13.50
(29.23)	11/26/02*	22.96	18.81	4.15	9.59	-
	01/28/03	22.58	15.98	6.60	11.93	30.00
	04/29/03	18.11	13.97	4.14	14.43	18.50
	07/29/03	19.63	16.66	2.97	11.98	8.25
	10/28/03	19.03	18.49	0.54	10.63	-
	01/29/04	18.33	14.03	4.30	14.34	29.00
	04/28/04	22.87	16.6	6.27	10.62	-
	07/26/04	24.44	17.34	7.10	9.71	IRAM Sys
	11/01/04	20.68	20.37	0.31	8.04	IRAM Sys
RW-4	10/30/02	20.27	NP	0.00	9.42	-
(29.69)	01/28/03	18.00	16.58	1.42	12.83	7.50
	04/29/03	16.96	14.59	2.37	14.63	6.50
	07/29/03	18.76	18.50	0.26	11.14	0.70
	10/28/03	18.98	NP	0.00	10.71	-
	01/29/04	17.90	14.07	3.83	14.85	13.00
	04/28/04	18.56	17.41	1.15	10.83	-
	07/26/04	17.50	17.2	0.30	11.21	IRAM Sys
	11/01/04	22.27	21.98	0.29	6.43	IRAM Sys

TABLE 1
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

Well Identification	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation ¹ (ft)	Recovered by Quarter (gallons)
RW-5 (29.83)	10/30/02	20.32	NP	0.00	9.51	0.01
	01/28/03	15.95	NP	Sheen	13.88	0.05
	04/29/03	15.31	NP	Sheen	14.52	0.25
	07/29/03	19.17	19.10	0.07	10.72	0.10
	10/28/03	19.38	19.36	0.02	10.47	-
	01/29/04	15.41	14.50	0.91	15.15	4.50
	04/28/04	18.45	17.80	0.65	10.54	-
	07/26/04	17.52	17.50	0.02	10.97	IRAM Sys
	11/01/04	20.52	20.43	0.09	8.02	IRAM Sys

NOTES:

NP = No Measurable Product

¹ = Elevation relative to 1988 North American Vertical Datum (NAVD)

² = Not Sampled. Sheen observed during gauging. SPH measured after purging at 0.05 ft. thickness.

- = Not measured, not analyzed, not sampled or not applicable

Groundwater elevations corrected for product thickness using formula:

GWE = TOC - DTW - (0.8 x (DTW - DTP)) where 0.8 is the density of the SPH

* = Additional RI Sampling

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH BTEX
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylene (total) (µg/L)	Naphthalene (µg/L)	Gasoline (µg/L)	Diesel (µg/L)	Heavy Oil (µg/L)
MW-1	02/01/02	2.50 U	2.50 U	2.50 U	5.00 U	31.5	2,610	NA	NA
	11/26/02*	1.00 U	1.00 U	1.00 U	3.00 U	2.00 U	797	30,000	3,700
	01/29/03	1.00 M	1.00 M	1.00 M	2.00 M	20.0 M	3,610	118,000	13,700
	04/30/03	0.500 M	0.500 M	0.500 M	1.00 M	2.00 M	1,390	129,000	14,100
MW-2	11/26/02*	1.00 U	1.00 U	1.00 U	3.00 U	23.3	1,350	148,000	14,100
MW-3	11/26/02*	1.00 U	1.00 U	1.00 U	3.00 U	2.31	1,280	198,000	500 U
MW-4	02/01/02	0.500 U	0.500 U	0.500 U	1.00 M	2.00 U	884	NA	NA
	05/01/02	2.50 U	2.50 U	2.50 U	5.00 U	31.5 J	2,610	NA	NA
	07/29/02	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	169	12,600	500 M
	10/30/02	0.500 M	0.500 M	0.500 M	1.00 M	3.50 M	479	33,000	500 M
DUP	10/30/02	0.500 M	0.500 M	0.500 M	1.00 M	2.00 M	535	2,480	500 M
	01/29/03	0.500 M	0.500 M	0.500 M	1.00 M	1.20 M	326	16,900	500 M
	04/30/03	0.500 M	0.500 M	0.500 M	1.00 M	2.50 M	119	10,800	500 M
	07/29/03	0.500 M	0.504	0.764	4.39	NA	125	50,100	2,500 M
	10/28/03	0.500 M	0.757	0.500 M	2.51	NA	1,180	120,000	10,000 M
	01/30/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	81.7	82,600	1,000 M
	04/29/04	0.500 M	0.986	0.500 M	1.00 M	NA	80.0 M	16,900	500 M
	07/26/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	150	17,400	500 M
	11/01/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	193	16,500	2,500 M
MW-5	02/01/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	NA	NA
	04/24/02	0.500 U	0.500 U	0.500 U	1.00 M	2.00 U	80.0 U	250 U	500 U
	07/30/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	50.0 M	NA	NA
	01/28/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	563	500 M
	04/30/03	0.500 M	0.500 M	0.500 M	1.00 M	0.200 M	80.0 M	472	500 M
	01/29/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	713	500 M
	04/28/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	905	500 M
MW-6	02/01/02	30.6	12	12.4	11.3	2.00 U	2,270	NA	NA
	04/24/02	37.1	6.34	6.03	8.45	2.00 U	2,140	250 U	500 U
	07/30/02	16.6	1.51	1.92	5.86	2.00 M	1,730	NA	NA
	01/29/03	6.84	1.52	1.22	2.39	2.00 M	1,800	250 M	500 M
	04/29/03	31.3	4.34	2.30	1.51	1.70 M	2,080	250 M	500 M
	01/29/04	53.7	3.51	3.52	6.98	NA	2,610	1,350	500 M
DUP	01/29/04	51.2	3.33	3.26	6.44	NA	2,350	1,220	500 M
	04/28/04	53.8	4.63	1.25	3.22	NA	2,620	1,200	500 M
MW-7	01/31/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	NA	NA
	04/24/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	250 U	500 U
	07/29/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	50.0 M	250 M	500 M
	10/29/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	98.7	250 M	500 M
	01/28/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.250 M	80.0 M	250 M	500 M
	07/29/03	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	10/28/03	0.500 M	2.11	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
DUP	10/28/03	0.500 M	1.18	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	01/29/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	04/28/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	07/26/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	11/01/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH BTEX
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (total) (µg/L)	Naphthalene (µg/L)	Gasoline (µg/L)	Diesel (µg/L)	Heavy Oil (µg/L)
MW-8	02/01/02	10.8	10	22.3	8.31	4.92	2,350	NA	NA
	04/25/02	2.85	4.45	13.4	4.52	7.64	1,190	250 U	500 U
	07/29/02	10.2	4.02	27.8	14.8	41.0	1,900	3,340	500 M
	10/30/02	1.88	0.691	3.89	9.86	0.772	764	1,170	500 M
	01/29/03	15.8	4.80	27.6	8.76	5.89	2,340	3,390	500 M
	04/30/03	11.8	2.11	30.1	10.4	23.1	1,810	2,250	500 M
	07/29/03	8.38	2.50	5.23	5.80	NA	887	961	500 M
	10/28/03	0.927	1.97	1.25	4.18	NA	623	571	500 M
	01/30/04	8.34	1.73	29.0	19.4	NA	1,920	1,810	500 M
	04/29/04	2.69	0.500 M	1.62	1.00 M	NA	618	1,020	500 M
	07/26/04	3.24	1.73	1.09	2.45	NA	376	1,300	500 M
	11/01/04	1.30	0.500 M	2.45	1.00 M	NA	391	422	500 M
MW-9	02/01/02	357	4.48	2.50 M	5.00 M	10.0 U	1,730	NA	NA
	04/25/02	312	6.84	5.47	9.44	10.0 U	1,360	250 U	500 U
	07/29/02	727	7.44	6.54	12.2	1.00 M	2,850	250 M	500 M
	10/30/02	511	11.4	6.14	10.0 M	1.00 M	1,420	486	500 M
	01/29/03	193	2.66	2.50 M	5.00 M	0.500 M	1,390	402	500 M
	04/30/03	663	9.36	11.6	11.1	2.30 M	3,440	250 M	500 M
	07/30/03	519	10.8	8.51	17.3	NA	2,060	457	500 M
	10/29/03	32.6	0.576	4.94	1.00 M	NA	1,790	680	500 M
	01/30/04	49.0	7.30	6.52	11.8	NA	1,970	693	500 M
	04/29/04	792	13.8	16.9	17.6	NA	3,100	903	500 M
	07/26/04	850	13.8	7.77	18.3	NA	3,800	1,600	601
	11/01/04	423	8.08	2.50 M	8.36	NA	1,870	471	500 M
MW-10	02/01/02	15.5	7.7	6.97	5.89	10.0 M	3,590	NA	NA
DUP	02/01/02	18	8.7	7.83	6.7	10.0 U	4,010	NA	NA
	04/25/02	16.7	8.48	7.65	9.13	4.00 U	4,470	3,850	500 U
	11/27/02*	3.17	2.41	1.00 U	2.49	2.00 U	3,630	15,200	500 U
	04/30/03	15.4	9.14	6.63	5.00 M	100 M	3,630	483,000	5,000 M
	07/30/03	9.23	6.60	5.95	8.52	NA	3,320	99,100	10,000 M
	10/29/03	10.6	5.88	4.94	7.06	NA	4,120	146,000	2,500 M
MW-12	01/31/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	1,320	NA	NA
	04/25/02	1.00 U	1.00 U	1.00 U	2.00 U	4.00 U	1,970	4,030	500 U
	07/29/02	0.721	0.526	0.500 M	5.60	2.50 M	1,110	11,100	500 M
DUP	07/29/02	0.729	0.534	0.500 M	5.68	5.00 M	1,140	5,180	500 U
	10/29/02	1.00 M	6.61	13.6	3.11	2.50 M	3,630	5,540	500 M
	01/28/03	0.500 M	0.534	0.500 M	1.00 M	3.00 M	1,250	110,000	10000 M
	04/29/03	0.500 M	0.547	0.500 M	2.55	1.50 M	740	14,500	500 M
	07/29/03	0.940	0.717	1.50	3.57	NA	832	2,000	500 M
	10/28/03	0.933	1.51	1.31	2.65	NA	1,110	25,300	500 M
	01/29/04	2.05	0.500 M	1.17	6.78	NA	835	12,700	500 M
	04/29/04	0.500 M	0.500 M	0.839	1.79	NA	669	8,030	500 M
	07/26/04	1.17	1.03	2.69	9.47	NA	1,720	12,500	500 M
	11/01/04	0.500 M	4.80	1.03	4.53	NA	1,330	37,200	2,500 M

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH BTEX
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylene (total) (µg/L)	Naphthalene (µg/L)	Gasoline (µg/L)	Diesel (µg/L)	Heavy Oil (µg/L)
MW-13	01/31/02	109	6.74	8.9	5.00 M	10.0 U	6,150	NA	NA
DUP	01/31/02	102	6.86	8.7	5.00 M	10.0 U	6,110	NA	NA
	04/25/02	48.5	7.56	9.14	5.00 U	10.0 U	5,700	250 U	500 U
DUP	04/25/02	51.8	8.62	8.76	5.00 U	10.0 U	5,720	250 U	500 U
	07/29/02	2.63	1.6	2.88	7.76	0.100 M	3,330	2,690	500 M
	10/29/02	4.68	3.35	2.38	6.37	4.00 M	2,320	2,180	762
DUP	10/29/02	5.82	3.10	2.45	5.89	3.00 M	2,350	2,020	1,000
	01/28/03	2.71	3.22	2.56	6.52	1.20 M	2,220	2,230	500 M
DUP	01/28/03	2.35	3.05	2.51	6.26	1.30 M	2,480	1,880	500 M
	04/29/03	107	3.56	5.72	5.00 M	2.50 M	6,160	833 M	1670 M
	07/29/03	3.23	2.48	1.84	4.91	NA	2,130	546	500 M
	10/28/03	2.18	3.90	1.50	4.43	NA	2,210	1,780	500 M
	01/29/04	16.8	1.32	4.19	7.76	NA	3,390	3,240	500 M
	04/28/04	1.86	1.84	1.11	3.68	NA	2,570	1,940	500 M
	07/26/04	1.21	0.768	1.97	5.05	NA	1,580	2,020	825
DUP	07/26/04	2.52	1.72	2.10	6.35	NA	2,010	2,000	899
	11/01/04	2.71	0.500 M	1.62	1.00 M	NA	1,910	507	500 M
MW-14	01/31/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	NA	NA
	04/24/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 M	250 U	500 U
	07/30/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	50.0 M	305 M	610 M
	10/29/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	01/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	160	250 M	500 M
	07/29/03	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	10/28/03	0.500 M	0.792	0.500 M	1.00 M	NA	80.0 M	287 M	500 M
	01/29/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	04/28/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	07/26/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	11/01/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
MW-15	01/31/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	NA	NA
	04/24/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	250 U	500 U
	07/30/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	50.0 M	250 M	500 M
	10/29/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	01/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.137	80.0 M	250 M	500 M
DUP	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	07/29/03	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
DUP	07/29/03	0.500 M	0.785	0.500 M	1.48	NA	80.0 M	250 M	500 M
	10/28/03	0.500 M	1.01	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	01/29/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	04/28/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	07/26/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	286M	571M
	11/01/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250	500 M

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH BTEX
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

Sample ID	Sample Date	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl-benzene ($\mu\text{g/L}$)	Xylene (total) ($\mu\text{g/L}$)	Naphthalene ($\mu\text{g/L}$)	Gasoline ($\mu\text{g/L}$)	Diesel ($\mu\text{g/L}$)	Heavy Oil ($\mu\text{g/L}$)
MW-16	02/01/02	49.1	12.6	4.42	7.61	10.0 M	3,620	NA	NA
	04/25/02	46	14	2.50 U	8.73	10.0 U	3,570	4,040	1,050
	07/30/02	83.6	14.0	2.73	11.0	2.50 M	1,920	4,740	1000 M
DUP	07/30/02	79.3	14.4	3.31	13.0	2.50 M	1,950	6,240	2,060
	11/27/02*	79.9	11.3	1.00 U	3.84	2.00 U	2,000	2,660	1,160
	01/28/03	40.5	13.4	4.35	10.6	1.80 M	2,930	30,400	17,600
DUP	01/28/03	34.2	10.3	2.50	10.9	2.20 M	3,500	35,100	13,100
	04/29/03	43.7	13.0	3.06	8.68	2.00 M	2,300	12,900	5,160
	07/29/03	65.7	10.1	2.91	6.98	NA	1,420	11,100	5,870
	10/28/03	77.9	12.8	2.16	7.95	NA	1,910	7,520	3,440
	04/28/04	26.5	8.74	1.28	5.73	NA	1,860	74,200	37,600
DUP	04/28/04	26.7	8.94	1.40	5.88	NA	1,780	50,200	21,700
	07/26/04	107	16.2	5.19	14.6	NA	2,890	28,100	15,400
	11/01/04	39.1	11.1	3.51	9.36	NA	2,440	15,100	8,500
MW-17	01/31/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	93.8	NA	NA
	04/24/02	0.500 U	0.500 U	0.500 U	1.00 M	2.00 M	126	360	500 U
	07/30/02	0.500 M	0.500 M	0.702	2.72	1.00 M	199	352	500 M
	10/30/02	0.500 M	0.500 M	0.500 M	1.00 M	1.00 M	80.0 M	250 M	500 M
	01/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.300 M	118	256	500 M
DUP	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.350 M	80.0 M	250 M	500 M
	07/29/03	0.500 M	0.749	0.500 M	1.00 M	NA	109	553	500 M
DUP	07/29/03	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	452	500 M
	10/28/03	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	324	500 M
	01/29/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	04/28/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	07/26/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	423	500 M
	11/01/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	272	500 M
MW-18	04/25/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	250 U	500 U
DUP	04/25/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 M	250 U	500 U
	07/29/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	50.0 M	250 M	500 M
	10/30/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	01/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	07/30/03	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	10/29/03	0.500 M	2.02	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	01/30/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	04/28/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	07/26/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	11/01/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH BTEX
Kinder Morgan Liquid Terminals LLC
Linnton Terminal
Portland, Oregon

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (total) (µg/L)	Naphthalene (µg/L)	Gasoline (µg/L)	Diesel (µg/L)	Heavy Oil (µg/L)
MW-20	05/01/03	36.5	7.12	5.15	7.20	5.00 M	3,460	5,850	500 M
	07/30/03	45.7	7.59	8.15	8.07	NA	2,680	7,200	500 M
MW-21	05/01/03	3.15	4.92	2.92	3.51	3.00 M	2,260	6,040	500 M
	07/30/03	4.15	5.45	4.08	10.8	NA	3,730	4,830	500 M
MW-22	05/01/03	11.7	3.54	2.43	4.52	1.70 M	1,330	2,570	500 M
	07/30/03	10.4	7.04	1.67	7.30	NA	1,080	2,650	500 M
	10/29/03	0.500 M	1.18	0.500 M	1.00 M	NA	138	1,330	500 M
	01/30/04	6.88	0.950	3.03	12.3	NA	2,550	2,130	500 M
	04/29/04	13.7	3.56	1.81	4.68	NA	1,670	3,470	510
	07/26/04	0.817	5.20	1.59	5.75	NA	1,210	3,340	776
	11/01/04	0.956	0.500 M	0.938	1.00 M	NA	715	2,430	512
MW-23	07/26/04	0.844	2.96	3.25	9.65	NA	1,750	11,400	687
	11/01/04	1.34	2.07	2.84	8.28	NA	1,670	17,600	8,780
DUP	11/01/04	1.28	2.16	3.06	9.78	NA	1,930	4,770	2,600
MW-24	07/26/04	0.976	1.19	2.40	10.0	NA	1,850	14,400	13,100
	11/01/04	0.500 M	1.97	0.827	3.35	NA	1,190	11,000	9,640
RW-1	11/26/02*	7.68	2.00 U	16.1	15.5	145	3,930	998,000	45,000
RW-2	11/26/02*	30.3	1.00 U	21.0	16.7	46.7	1,690	243,000	57,700
RW-3	11/26/02*	3.80	1.00 U	7.51	3.00 U	9.04	1,430	678,000	50000 U
Trip Blank	04/24/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	NA	NA
	04/25/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	NA	NA
	07/29/02	0.500 M	0.500 M	0.500 M	1.00 M	NA	50.0 M	NA	NA
	10/29/02	0.500 M	0.500 M	0.500 M	1.00 M	NA	NA	NA	NA

NOTES:

Gasoline Range Hydrocarbons analyzed by NW TPH-Gx Method

Diesel and Heavy Oil Range Hydrocarbons analyzed by NW TPH-DX Method

Benzene, Toluene, Ethylbenzene, Xylene, and Naphthalene (BTEX/N) analyzed by USEPA Method 8021B or 8260B

µg/l = micrograms per liter

Lab reported Diesel and Heavy Oil in mg/l

NA = Not Analyzed

J = Estimated Value

U = Analyte included in the analysis but not detected above laboratory method detection limits (MDLs)

M = Analyte included in the analysis but not detected above laboratory method reporting limits (MRLs)

Bold Face Font = Analyte detected above the MRLs

* = Additional RI Sampling

TABLE 3
GROUNDWATER ANALYTICAL PAHs
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

Sample ID	Sample Date	Acenaphthene ($\mu\text{g/L}$)	Acenaphthylene ($\mu\text{g/L}$)	Anthracene ($\mu\text{g/L}$)	Benz(a)anthracene ($\mu\text{g/L}$)	Benz(a)pyrene ($\mu\text{g/L}$)	Benz(b)fluoranthene ($\mu\text{g/L}$)	Benz(ghi)perylene ($\mu\text{g/L}$)	Benz(k)fluoranthene ($\mu\text{g/L}$)	Chrysene ($\mu\text{g/L}$)	Dibenz(a,h)anthracene ($\mu\text{g/L}$)	Fluoranthene ($\mu\text{g/L}$)	Fluorene ($\mu\text{g/L}$)	Indeno(1,2,3-cd)pyrene ($\mu\text{g/L}$)	Naphthalene ($\mu\text{g/L}$)	Phenanthrene ($\mu\text{g/L}$)	Pyrrene ($\mu\text{g/L}$)
MW-1	02/01/02	5.00 U	2.50 U	2.74	0.500 U	0.500 U	0.500 U	0.500 U	0.500 M	1.00 U	0.500 U	20.9	0.500 U	12.5 U	13.3	2.23	
	11/26/2002*	2.28	0.500 U	1.98	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	13.9	0.500 U	5.00 U	11.0	1.48	
	01/29/03	10.0 M	5.00 M	10.8	0.284	0.394	0.322	0.200 M	0.266	1.46	0.400 M	50.6	0.200 M	20.0 M	54.7	6.98	
	04/30/03	2.74	1.00 M	2.48	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	16.5	1.00 M	2.00 M	12.7	2.00	
MW-2	11/26/2002*	4.44	1.00 U	2.72	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	2.00 U	1.16	14.8	1.00 U	21.1	15.4	2.24	
MW-3	11/26/2002*	10.0 U	10.0 U	3.99	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	33.0 U	0.500 U	10.0 U	22.1	2.98	
MW-4	02/01/02	0.500 U	0.100 U	0.257	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	2.32	0.100 U	1.00 U	0.726	0.17	
	04/25/02	0.500 U	0.100 U	0.368	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	2.21	0.100 U	0.500 U	0.618	0.192	
	07/29/02	0.405	0.100 M	0.500 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	1.75	0.100 M	0.500 M	0.500 M	0.313	
	10/30/02	2.50 M	0.500 M	4.26	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	8.00 M	0.500 M	3.50 M	7.84	3.09	
DUP	10/30/02	1.50 M	0.500 M	2.18	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	4.36	0.500 M	2.00 M	3.60	1.81	
	01/29/03	0.800 M	0.400 M	0.860	0.400 M	0.400 M	0.400 M	0.400 M	0.400 M	0.800 M	0.400 M	2.97	0.400 M	1.20 M	2.23	0.600	
	04/30/03	2.50 M	2.50 M	2.50 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	2.50 M	4.88	0.100 M	2.50 M	2.74	0.774	
	07/29/03	1.00 M	0.750 M	1.79	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	5.12	0.500 M	3.25	4.40	1.36	
	10/28/03	3.00 M	2.00 M	4.00 M	2.00 M	2.00 M	2.00 M	2.00 M	2.00 M	4.00 M	2.00 M	11.0 M	2.00 M	3.00 M	8.85	4.00	
	01/30/04	3.00 M	2.50 M	5.90	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	11.5 M	1.00 M	4.50 M	10.3	4.41	
	04/29/04	1.00 M	0.750 M	1.75 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	4.04	0.500 M	2.25 M	2.50 M	1.32	
	07/26/04	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	1.74	1.00 M	1.50 M	1.00 M	1.00 M	
	11/01/04	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	1.46	1.00 M	1.00 M	1.11	1.00 M	
MW-5	02/01/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	04/24/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	01/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/30/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	
	01/29/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.150 M	0.100 M	0.100 M	
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.150 M	0.100 M	0.100 M	
MW-6	02/01/02	0.153	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.131	0.100 U	5.00 U	0.225	0.100 U	
	04/24/02	0.151	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.101	0.100 U	2.00 U	0.214	0.100 U	
	01/29/03	0.129	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	2.00 M	0.128	0.100 M	
	04/29/03	0.107	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.200 M	0.100 M	0.110	0.100 M	
	01/29/04	0.115	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.140	0.100 M	1.95 M	0.146	0.100 M	
DUP	01/29/04	0.115	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.150 M	0.100 M	1.35 M	0.130	0.100 M	
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.104	0.100 M	1.35 M	0.110	0.100 M	

TABLE 3
GROUNDWATER ANALYTICAL PAHs
Kinder Morgan Liquid Terminals LLC
Linniton Terminal
Portland, Oregon

Sample ID	Sample Date	Arenaphthene ($\mu\text{g/L}$)	Acenaphthalene ($\mu\text{g/L}$)	Acenaphthylenne ($\mu\text{g/L}$)	Anthracene ($\mu\text{g/L}$)	Benz(a)anthracene ($\mu\text{g/L}$)	Benz(a)pyrene ($\mu\text{g/L}$)	Benz(b)fluoranthene ($\mu\text{g/L}$)	Benz(ghi)perylene ($\mu\text{g/L}$)	Benz(k)fluoranthene ($\mu\text{g/L}$)	Chrysene ($\mu\text{g/L}$)	Dibenz(a,h)anthracene ($\mu\text{g/L}$)	Fluoranthene ($\mu\text{g/L}$)	Fluorene ($\mu\text{g/L}$)	Indeno[1,2,3-cd]pyrene ($\mu\text{g/L}$)	Naphthalene ($\mu\text{g/L}$)	Phenanthrene ($\mu\text{g/L}$)	Pyrene ($\mu\text{g/L}$)
MW-7	01/31/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	04/24/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	07/29/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/29/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.250 M	0.100 M	0.100 M	
	07/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
DUP	10/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/26/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	11/01/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
MW-8	02/01/02	18.9	2.00 U	0.759	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	1.03	12.4	0.100 U	2.56	11.2	1.19	
	04/25/02	40.5	0.500 M	0.608	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 U	1.69	18.6	0.100 U	8.36	7.73	1.72	
	07/29/02	57.1	0.100 M	0.629	0.117	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	1.36	22.3	0.100 M	41.0	7.78	2.34	
	10/30/02	90.3	1.00 M	1.31	0.668	0.723	0.529	0.675	0.500 M	0.733	1.00 M	2.65	43.4	0.500 M	0.772	8.42	3.34	
	01/29/03	18.9	1.00 M	0.429	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.697	9.94	0.100 M	5.89	4.72	0.788	
	04/30/03	27.1	5.00 M	0.780	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.854	13.4	0.100 M	23.1	4.21	1.30	
	07/29/03	70.6	0.303	0.688	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.208	0.400 M	1.32	33.6	0.200 M	2.84	10.0	1.73	
	10/28/03	51.7	0.250 M	0.527	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.114	0.200 M	0.917	26.7	0.100 M	0.322	4.84	1.17	
	01/30/04	32.1	0.400 M	0.618	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	0.777	13.3	0.200 M	10.5	6.37	0.879	
	04/29/04	58.6	0.300 M	0.743	0.167	0.138	0.124	0.183	0.119	0.224	0.200 M	1.43	25.9	0.126	2.00 M	12.5	1.54	
	07/26/04	51.4	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.06	26.8	1.00 M	1.00 M	3.67	1.09	
	11/01/04	99.6	2.50 M	1.15	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.718	50.6	0.100 M	2.50 M	8.63	0.871	

TABLE 3
GROUNDWATER ANALYTICAL PAHs
Kinder Morgan Liquid Terminals LLC
Linnton Terminal
Portland, Oregon

Sample ID	Sample Date	Acenaphthene ($\mu\text{g/L}$)	Acenaphthyrene ($\mu\text{g/L}$)	Anthracene ($\mu\text{g/L}$)	Benz(a)anthracene ($\mu\text{g/L}$)	Benz(b)pyrene ($\mu\text{g/L}$)	Benz(b)fluoranthene ($\mu\text{g/L}$)	Benz(d)perylene ($\mu\text{g/L}$)	Benz(k)fluoranthene ($\mu\text{g/L}$)	Chrysene ($\mu\text{g/L}$)	Dibenz(a,h)anthracene ($\mu\text{g/L}$)	Fluoranthene ($\mu\text{g/L}$)	Fluorene ($\mu\text{g/L}$)	Indeno(1,2,3-c)pyrene ($\mu\text{g/L}$)	Naphthalene ($\mu\text{g/L}$)	Phenanthrene ($\mu\text{g/L}$)	
MW-9	02/01/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.500 U	0.100 U	0.100 M		
	04/25/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	1.00 U	0.100 U	0.100 U		
	07/29/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	1.00 M	0.100 M	0.100 M		
	10/30/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	1.00 M	0.100 M	0.100 M		
	01/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.500 M	0.100 M	0.100 M		
	04/30/03	0.112	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	2.30 M	0.100 M	0.100 M		
	07/30/03	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	0.200 M	0.200 M	2.00 M	0.200 M	0.200 M		
	10/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.550 M	0.100 M	0.100 M		
	01/30/04	0.116	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	1.65 M	0.100 M	0.100 M		
	04/29/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	1.60 M	0.100 M	0.100 M		
	07/26/04	0.114	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	3.50 M	0.100 M	0.100 M		
	11/01/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	1.30 M	0.100 M	0.100 M		
MW-10	02/01/02	7.81	0.100 U	0.304	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.447	5.21	0.100 U	5.00 U	1.41	0.512	
DUP	02/01/02	6.6	0.500 U	0.228	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.387	4.19	0.100 U	5.00 U	0.557	0.451	
	04/25/02	4.39	0.100 U	0.367	0.123	0.108	0.100 M	0.100 M	0.100 M	0.142	0.200 U	0.784	3.21	0.100 M	2.50 U	0.903	0.933
	11/27/02*	10.8	0.500 U	1.66	0.500 U	0.678	0.500 U	0.695	0.500 U	0.605	1.00 U	1.77	10.7	0.500 U	17.0 U	9.62	2.20
	04/30/03	150	100 M	23.1	12.0	10.6	6.90	5.00	7.08	14.9	2.00 M	73.8	163	4.00	100 M	178	76.1
	07/30/03	29.4	6.00 M	5.16	3.40	4.07	3.09	3.24	2.00 M	4.16	4.00 M	10.5	25.6	2.18	32.0 M	22.9	18.8
	10/29/03	19.8	3.50 M	4.02	2.17	2.12	1.44	1.35	1.22	2.92	2.00 M	9.99	19.6	1.00 M	12.5 M	20.6	14.3
MW-12	01/31/02	2.05	0.500 U	0.212	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	4.34	0.100 U	2.50 U	4.11	0.100 M	
	04/25/02	1.52	0.100 U	0.349	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 M	3.32	0.100 U	1.00 U	4.55	0.143	
	07/29/02	5.00 M	0.500 M	0.593	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.500 M	5.33	0.100 M	2.50 M	7.29	0.260	
DUP	07/29/02	2.44	0.500 M	0.655	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	4.67	0.100 M	5.00 M	6.23	0.293	
	10/29/02	1.72	0.100 M	0.353	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.500 M	3.89	0.100 M	2.50 M	5.87	0.123	
	01/28/03	3.33	0.500 M	1.01	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	6.96	0.500 M	3.00 M	10.6	0.566	
	04/29/03	4.00	1.00 M	1.18	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	9.45	1.00 M	1.50 M	10.9	1.00 M	
	07/29/03	2.23	0.700 M	0.254	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	0.200 M	4.77	0.200 M	2.20 M	6.09	0.200 M	
	10/28/03	6.26	1.60 M	2.20 M	0.400 M	0.400 M	0.400 M	0.400 M	0.400 M	0.800 M	0.452	10.1	0.400 M	3.80 M	18.0	1.29	
	01/29/04	3.36	1.50 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	7.12	1.00 M	3.00 M	7.44	1.00 M	
	04/29/04	1.98	0.800 M	0.400 M	0.400 M	0.400 M	0.400 M	0.400 M	0.400 M	0.800 M	0.400 M	4.05	0.400 M	0.400 M	4.44	0.400 M	
	07/26/04	3.11	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	6.40	1.00 M	4.60 M	5.93	1.00 M	
	11/01/04	3.40	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	7.54	1.00 M	1.00 M	9.25	1.00 M	

TABLE 3
GROUNDWATER ANALYTICAL PAHs
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

Sample ID	Sample Date	Acenaphthene ($\mu\text{g/L}$)	Acenaphthylene ($\mu\text{g/L}$)	Anthracene ($\mu\text{g/L}$)	Benz(a)anthracene ($\mu\text{g/L}$)	Benz(a)pyrene ($\mu\text{g/L}$)	Benz(b)fluoranthene ($\mu\text{g/L}$)	Benz(ghi)perylene ($\mu\text{g/L}$)	Benz(k)fluoranthene ($\mu\text{g/L}$)	Chrysene ($\mu\text{g/L}$)	Dibenz(a,h)anthracene ($\mu\text{g/L}$)	Fluoranthene ($\mu\text{g/L}$)	Fluorene ($\mu\text{g/L}$)	Indeno(1,2,3-cd)pyrene ($\mu\text{g/L}$)	Naphthalene ($\mu\text{g/L}$)	Phenanthrene ($\mu\text{g/L}$)	Pyrene ($\mu\text{g/L}$)
MW-13	01/31/02	1.62	0.100 U	0.16	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 M	3.23	0.100 U	5.00 U	2.61	0.100 M	
DUP	01/31/02	1.47	0.100 U	0.144	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 M	3.26	0.100 U	2.00 U	3.3	0.100 M	
	04/25/02	1.25	0.100 U	0.203	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 M	2.75	0.100 U	2.00 U	2.63	0.100 M	
DUP	04/25/02	1.36	0.100 U	0.138	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 M	2.73	0.100 U	2.00 U	2.74	0.100 M	
	07/29/02	0.858	0.100 M	0.172	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	1.90	0.100 M	0.100 M	3.61	0.157	
	10/29/02	1.31	0.500 M	1.00 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	~0.500 M	2.75	0.500 M	4.00 M	4.91	0.515
DUP	10/29/02	0.802	0.100 M	0.250 M	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 M	1.68	0.100 M	3.00 M	2.42	0.121	
	01/28/03	0.598	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	1.15	0.100 M	1.20 M	1.13	0.100 M	
DUP	01/28/03	0.710	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	1.40	0.100 M	1.30 M	1.11	0.100 M	
	04/29/03	2.69	2.50 M	0.223	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	5.57	0.100 M	2.50 M	2.94	0.120	
	07/29/03	0.808	0.300 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	0.200 M	1.69	0.200 M	2.20 M	2.88	0.200 M	
	10/29/03	0.843	0.250 M	0.112	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	1.69	0.100 M	1.45 M	2.42	0.100 M	
	01/29/04	1.85	0.500 M	0.236	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	0.200 M	3.88	0.200 M	4.40 M	5.12	0.200 M	
	04/28/04	0.991	0.300 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	1.92	0.100 M	4.00 M	3.42	0.100 M	
	07/26/04	2.50 M	2.50 M	0.211	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	2.50	0.100 M	4.25 M	3.73	0.100 M	
DUP	07/26/04	2.50 M	2.50 M	0.181	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	2.50	0.100 M	4.00 M	3.48	0.100 M	
	11/01/04	0.950	0.100 M	0.152	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	2.06	0.100 M	2.50 M	2.85	0.164	
MW-14	01/31/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 M	
	04/24/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	07/30/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/29/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/26/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	11/01/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	

TABLE 3
GROUNDWATER ANALYTICAL PAHs
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

Sample ID	Sample Date	Arenaphthene ($\mu\text{g/L}$)	Acenaphthylene ($\mu\text{g/L}$)	Anthracene ($\mu\text{g/L}$)	Benz(a)anthracene ($\mu\text{g/L}$)	Benz(a)pyrene ($\mu\text{g/L}$)	Benz(b)fluoranthene ($\mu\text{g/L}$)	Benz(g,h,i)perylene ($\mu\text{g/L}$)	Benz(k)fluoranthene ($\mu\text{g/L}$)	Chrysene ($\mu\text{g/L}$)	Dibenzo(a,h)anthracene ($\mu\text{g/L}$)	Fluoranthene ($\mu\text{g/L}$)	Fluorene ($\mu\text{g/L}$)	Indeno(1,2,3-cd)pyrene ($\mu\text{g/L}$)	Naphthalene ($\mu\text{g/L}$)	Perynanthrene ($\mu\text{g/L}$)	Pyrene ($\mu\text{g/L}$)
MW-15	01/31/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	04/24/02	0.100 U	0.100 U	0.100 U	0.100 M	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	07/30/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/29/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
DUP	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
DUP	07/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/26/04	0.100 M	0.100 M	0.100 M	1.00 M	0.100 M	0.100 M	0.100 M	0.100 M	1.00 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	1.00 M	
	11/01/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
MW-16	02/01/02	1.4	0.200 U	0.200 M	0.200 M	0.200 M	0.200 U	0.200 U	0.200 M	0.400 U	0.358	2.97	0.200 U	4.00 U	1.71	0.342	
	04/25/02	1.16	0.100 U	0.258	0.255	0.218	0.208	0.158	0.183	0.200 U	0.642	2.84	0.138	1.50 U	2.49	0.626	
	07/30/02	1.34	0.200 M	0.409	0.312	0.231	0.266	0.200 M	0.200 M	0.476	0.400 M	0.676	2.65	0.200 M	2.50 M	2.97	0.942
DUP	07/30/02	1.38	0.200 M	0.367	0.233	0.200 M	0.200 M	0.200 M	0.200 M	0.374	0.400 M	0.567	2.50	0.200 M	2.50 M	2.80	0.685
	11/27/02*	4.12	1.00 U	2.41	1.27	1.47	2.35	1.00 U	1.00 U	3.15	2.00 U	2.99	11.9	1.00 U	7.40 U	13.5	3.27
	01/28/03	1.24	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	0.200 M	2.37	0.200 M	1.80 M	1.74	0.235	
DUP	01/28/03	1.33	0.200 M	0.242	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.428	0.400 M	0.298	2.73	0.200 M	2.20 M	2.38	0.368
	04/29/03	2.78	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	5.86	1.00 M	2.00 M	4.86	1.00 M	
	07/29/03	2.00	0.500 M	0.614	0.640	0.633	1.06	0.500 M	0.500 M	1.10	1.00 M	1.08	4.16	0.500 M	4.50 M	3.05	1.42
	10/28/03	1.53	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	3.05	0.500 M	1.75 M	2.17	0.500 M	
	04/28/04	1.47	1.00 M	1.00 M	2.00 M	1.00 M	2.50 M	1.00 M	2.50 M	2.00 M	2.00 M	3.22	1.00 M	4.00 M	2.17	1.00 M	
DUP	04/28/04	2.23	1.00 M	1.00 M	2.00 M	1.00 M	2.50 M	1.00 M	2.50 M	2.00 M	2.00 M	4.82	1.00 M	4.00 M	5.18	1.00 M	
	07/26/04	2.50 M	2.50 M	2.50 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	2.50 M	2.78	1.00 M	4.00 M	2.50 M	1.00 M	
	11/01/04	2.24	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	4.64	1.00 M	1.50 M	3.56	1.00 M	

TABLE 3
GROUNDWATER ANALYTICAL PAHs
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

Sample ID	Sample Date	Aceanaphthene ($\mu\text{g/L}$)	Aceanaphthylene ($\mu\text{g/L}$)	Anthracene ($\mu\text{g/L}$)	Benz(a)anthracene ($\mu\text{g/L}$)	Benz(a)pyrene ($\mu\text{g/L}$)	Benz(b)fluoranthene ($\mu\text{g/L}$)	Benz(ghi)perylene ($\mu\text{g/L}$)	Benz(k)floranthene ($\mu\text{g/L}$)	Chrysene ($\mu\text{g/L}$)	Dibenz(a,h)anthracene ($\mu\text{g/L}$)	Fluoranthene ($\mu\text{g/L}$)	Fluorone ($\mu\text{g/L}$)	Indeno(1,2,3-cd)pyrene ($\mu\text{g/L}$)	Naphthalene ($\mu\text{g/L}$)	Pheanthrene ($\mu\text{g/L}$)	Pyrene ($\mu\text{g/L}$)
MW-17	01/31/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.214	0.100 U	0.200 U	0.301	0.100 U	
	04/24/02	0.100 U	0.100 U	0.2100 M	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.187	0.100 U	
	07/30/02	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	1.00 M	0.100 M	0.100 M	0.100 M	
	10/30/02	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	1.00 M	0.100 M	0.100 M	0.100 M	
	01/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M
	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.300 M	0.100 M	0.100 M	0.100 M
DUP	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.350 M	0.100 M	0.100 M	0.100 M
	07/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.250 M	0.100 M	0.100 M	0.100 M
DUP	07/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M
	10/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M
	01/29/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M
	07/26/04	0.100 M	0.100 M	0.100 M	1.00 M	0.100 M	0.100 M	0.100 M	0.100 M	1.00 M	0.200 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	1.00 M
	11/01/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M
MW-18	04/25/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
DUP	04/25/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
	07/29/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M
	10/30/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M
	01/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M
	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M
	07/26/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M
	11/01/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M

TABLE 3
GROUNDWATER ANALYTICAL PAHs
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

Sample ID	Sample Date	Acenaphthene ($\mu\text{g/L}$)	Acenaphthylene ($\mu\text{g/L}$)	Anthracene ($\mu\text{g/L}$)	Benz(a)anthracene ($\mu\text{g/L}$)	Benz(a)pyrene ($\mu\text{g/L}$)	Benz(b)fluoranthene ($\mu\text{g/L}$)	Benz(g)perylene ($\mu\text{g/L}$)	Benz(k)fluoranthene ($\mu\text{g/L}$)	Chrysene ($\mu\text{g/L}$)	Dibenzo(a,h)anthracene ($\mu\text{g/L}$)	Fluoranthene ($\mu\text{g/L}$)	Fluorene ($\mu\text{g/L}$)	Indeno(1,2,3-cd)pyrene ($\mu\text{g/L}$)	Naphthalene ($\mu\text{g/L}$)	Phenanthrene ($\mu\text{g/L}$)	Pyrene ($\mu\text{g/L}$)
MW-20	05/01/03	11.7	2.50 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.368	6.24	0.100 M	5.00 M	0.820	0.495	
	07/30/03	21.8	1.00 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.979	9.16	0.500 M	8.00 M	3.61	1.31	
MW-21	05/01/03	6.08	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	6.13	1.00 M	3.00 M	2.59	1.00 M	
	07/30/03	5.25 M	0.750 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	4.59	0.500 M	6.50 M	2.23	0.704	
MW-22	05/01/03	2.67	0.100 M	0.158	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.726	1.15	0.100 M	1.70 M	0.146	1.09	
	07/30/03	6.14	0.300 M	0.362	0.223	0.219	0.200 M	0.200 M	0.200 M	0.400 M	1.68	1.70	0.200 M	2.60 M	2.22	2.31	
10/29/03	0.286	0.100 M	0.150 M	0.123	0.138	0.100 M	0.125	0.100 M	0.153	0.200 M	0.835	0.110	0.100 M	0.400 M	0.150 M	1.19	
	01/30/04	1.90	0.300 M	0.276	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	0.936	1.78	0.200 M	1.70 M	1.25	1.28	
04/29/04	4.73	0.300 M	0.332	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	1.16	1.75	0.100 M	3.50 M	3.09	1.41		
	07/26/04	6.24	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.46	1.67	1.00 M	4.50 M	2.59	1.47	
11/01/04	3.49	0.100 M	0.218	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.968	1.12	0.100 M	1.70 M	1.20	1.65		
	07/26/04	1.15	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	1.95	1.00 M	3.00 M	1.20	1.00 M	
MW-23	11/01/04	1.39	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	2.47	0.500 M	1.00 M	2.02	0.500 M	
	DUP	1.31	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	2.29	0.500 M	1.00 M	1.86	0.500 M	
MW-24	07/26/04	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	1.55	1.00 M	2.00 M	1.35	1.00 M	
	11/01/04	0.506	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	1.20	0.500 M	0.500 M	0.500 M	0.500 M	
RW-1	11/26/02*	30.0 U	25.0 U	14.3	1.41	1.00 U	1.70	1.00 U	1.00 U	4.19	2.00 U	4.57	130 U	1.00 U	224	87.0	16.1
	RW-2	6.30	0.100 U	2.42	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	1.83	2.00 U	1.21	14.7	1.00 U	56.2	17.7	1.75
RW-3	11/26/02*	70.0 U	57.1 U	19.5	2.48	2.02	1.43	1.14 U	1.45	5.45	2.29 U	6.02	186 U	1.14 U	100 U	231	18.8

NOTES:

Polyaromatic Aromatic Compounds (PAHs) analyzed by USEPA Method 8270M-SM

$\mu\text{g/L}$ = micrograms per liter

J = Estimated Value

U = Analyte included in the analysis but not detected above laboratory method detection limits (MDLs)

M = Analyte included in the analysis but not detected above laboratory method reporting limits (MRLs)

Bold Face Font = Analyte detected above the MRLs

* = Additional RI Sampling

TABLE 4
GROUNDWATER ANALYTICAL - TOTAL METALS
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)
MW-1	02/01/02	0.0051	0.137J	0.00100 U	0.0019	0.0035	0.00100 M	0.000200 U	0.00100 M	0.00100 U	0.00863
	11/26/02*	0.00576	0.192	0.00100 U	0.00638	0.0165	0.00580	0.000200 U	0.00111	0.00100 U	0.0278
	01/29/03	0.00408	0.142	0.00100 M	0.00216	0.00657	0.00293	0.000400 M	0.00100 M	0.00100 M	0.0113
	04/30/03	0.00451	0.102	0.00100 M	0.00108	0.00200 M	0.00100 M	0.000200 M	0.00123	0.00100 M	0.00500 M
MW-2	11/26/02*	0.0410	0.119	0.00100 U	0.00132	0.00345	0.00497	0.000200 U	0.00100 U	0.00100 U	0.00770
MW-3	11/26/02*	0.0196	0.152	0.00100 U	0.00303	0.00599	0.00247	0.000200 U	0.00140	0.00100 U	0.0144
MW-4	02/01/02	0.00554	0.0916	0.00100 U	0.00100 M	0.00248	0.00100 M	0.000200 U	0.00113	0.00100 U	0.00500 M
	04/25/02	NA	NA	NA	NA	NA	0.00100 U	NA	NA	NA	NA
	07/29/02	NA	NA	NA	NA	NA	0.00100 M	NA	NA	NA	NA
	10/30/02	NA	NA	NA	NA	NA	0.00438	NA	NA	NA	NA
DUP	10/30/02	NA	NA	NA	NA	NA	0.00607	NA	NA	NA	NA
	01/29/03	0.00503	0.0791	0.00100 M	0.00102	0.00200 M	0.00100 M	0.000200 M	0.00100 M	0.00100 M	0.00500 M
	04/30/03	0.00511	0.0759	0.00100 M	0.00100 M	0.00200 M	0.00100 M	0.000200 M	0.00137	0.00100 M	0.00540
	07/29/03	0.0388	0.107	0.00500 M	0.00733	0.00679	0.00177	0.000200 M	0.00500 M	0.00500 M	0.0196
	10/28/03	0.0734	0.202	0.00100 M	0.0197	0.0219	0.00898	0.000200 M	0.00100 M	0.00100 M	0.0735
	01/30/04	0.0123	0.0950	0.00100 M	0.00132	0.00221	0.00100 M	0.000200 M	0.00117	0.00100 M	0.0168
	04/29/04	0.0301	0.109	0.00100 M	0.00616	0.00666	0.00242	0.000200 M	0.00199	0.00100 M	0.0226
	07/26/04	0.146	0.285	0.00653 M	0.0345	0.0528	0.0156	0.000200 M	0.00192	0.00100 M	0.156
	11/01/04	0.207	0.560	0.00100 M	0.0745	0.0917	0.0296	0.000328	0.00190	0.00100 M	0.285
MW-5	02/01/02	0.00342	0.14	0.00100 M	0.00611	0.0161	0.00809	0.000200 U	0.00100 M	0.00100 U	0.0356
	04/24/02	NA	NA	NA	NA	NA	0.00976	NA	NA	NA	NA
	07/30/02	NA	NA	NA	NA	NA	0.00722	NA	NA	NA	NA
	01/28/03	0.00246	0.0801	0.00100 M	0.00316	0.00675	0.00475	0.000800 M	0.00100 M	0.00100 M	0.0222
	04/30/03	0.00195	0.0637	0.00100 M	0.00210	0.00662	0.00387	0.000200 M	0.00100 M	0.00100 M	0.0170
	01/29/04	0.00243	0.0855	0.00100 M	0.00218	0.00646	0.00463	0.000200 M	0.00110	0.00100 M	0.0243
	04/28/04	0.00188	0.0729	0.00100 M	0.00244	0.00560	0.00305	0.000200 M	0.00105	0.00100 M	0.0152
MW-6	02/01/02	0.0403	0.204	0.00189	0.00163	0.0069	0.00265	0.000200 U	0.00100 M	0.00100 U	0.0486
	04/24/02	NA	NA	NA	NA	NA	0.00143	NA	NA	NA	NA
	01/29/03	0.0465	0.182	0.00100 M	0.00253	0.00724	0.00651	0.000200 M	0.00100 M	0.00100 M	0.0617
	04/29/03	0.0391	0.0961	0.00100 M	0.00100 M	0.00200	0.00100 M	0.000200 M	0.00100 M	0.00100 M	0.00619
	01/29/04	0.0551	0.129	0.00100 M	0.00100 M	0.00430	0.00208	0.000200 M	0.00100 M	0.00100 M	0.0178
DUP	01/29/04	0.0570	0.137	0.00100 M	0.00100 M	0.00417	0.00203	0.000200 M	0.00100 M	0.00100 M	0.0156
	04/28/04	0.0587	0.109	0.00100 M	0.00106	0.00379	0.00137	0.000200 M	0.00234	0.00100 M	0.0130

TABLE 4
GROUNDWATER ANALYTICAL - TOTAL METALS
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)	
MW-7	01/31/02	0.00339	0.0786	0.00100 M	0.00294	0.00673	0.00214	0.000200 U	0.00100 M	0.00100 U	0.014	
	04/24/02	NA	NA	NA	NA	NA	0.00240	NA	NA	NA	NA	
	07/29/02	NA	NA	NA	NA	NA	0.00735	NA	NA	NA	NA	
	10/29/02	NA	NA	NA	NA	NA	0.0346	NA	NA	NA	NA	
	01/28/03	0.00161	0.0574	0.00100 M	0.00100 M	0.00318	0.00106	0.000200 M	0.00100 M	0.00100 M	0.00763	
	04/29/03	0.00171	0.0629	0.00100 M	0.00174	0.00396	0.00219	0.000200 M	0.00100 M	0.00100 M	0.0135	
	07/29/03	0.00500 M	0.0735	0.00500 M	0.00676	0.00675	0.00223	0.000200 M	0.00500 M	0.00500 M	0.0166	
	10/28/03	0.00180	0.0516	0.00100 M	0.00100 M	0.00292	0.00100 M	0.000200 M	0.00100 M	0.00100 M	0.00595	
	DUP	10/28/03	0.00578	0.185	0.00100 M	0.00873	0.0199	0.00980	0.000200 M	0.00100 M	0.00100 M	0.0532
		01/29/04	0.00239	0.0769	0.00100 M	0.00286	0.00563	0.00249	0.000200 M	0.00100 M	0.00100 M	0.0201
MW-8		04/28/04	0.00219	0.105	0.00100 M	0.00347	0.00848	0.00411	0.000200 M	0.00100	0.00100 M	0.0214
		07/26/04	0.00705	0.176	0.00664M	0.00895	0.0221	0.00779	0.000200 M	0.00100 M	0.00100 M	0.0554
		11/01/04	0.0134	0.255	0.00100 M	0.0196	0.0372	0.0159	0.000200 M	0.00100 M	0.00100 M	0.101
		02/01/02	0.00884	0.0396	0.00100 M	0.00100 M	0.01160	0.000200 U	0.00100 M	0.00100 U	0.00500 M	
		04/25/02	NA	NA	NA	NA	0.00761	NA	NA	NA	NA	
		07/29/02	NA	NA	NA	NA	0.00510	NA	NA	NA	NA	
		10/30/02	NA	NA	NA	NA	0.00495	NA	NA	NA	NA	
		01/29/03	0.00530	0.0348	0.00100 M	0.00100 M	0.00200 M	0.0147	0.000200 M	0.00100 M	0.00100 M	0.00979
		04/30/03	0.00560	0.0265	0.00100 M	0.00100 M	0.00200 M	0.00900	0.000200 M	0.00100 M	0.00100 M	0.0121
		07/29/03	0.00922	0.106	0.00500 M	0.00500 M	0.00500 M	0.00355	0.000200 M	0.00500 M	0.00500 M	0.0172
MW-9		10/28/03	0.00284	0.0502	0.00100 M	0.00156	0.00316	0.00373	0.000200 M	0.00104	0.00100 M	0.00704
		01/30/04	0.00333	0.0318	0.00100 M	0.00100 M	0.00200 M	0.0109	0.000200 M	0.00100 M	0.00100 M	0.00743
		04/29/04	0.00204	0.0414	0.00100 M	0.00214	0.00742	0.00864	0.000200 M	0.00100 M	0.00100 M	0.0144
		07/26/04	0.00184	0.0500	0.00100 M	0.00169	0.00317	0.00461	0.000200 M	0.00113	0.00100 M	0.0110
		11/01/04	0.00100 M	0.0347	0.00100 M	0.00100 M	0.00200 M	0.00133	0.000200 M	0.00100 M	0.00100 M	0.00500 M
		02/01/02	0.0384	0.288	0.00100 M	0.0228	0.048	0.02390	0.000200 U	0.00133	0.00100 M	0.106
		04/25/02	NA	NA	NA	NA	0.00102	NA	NA	NA	NA	
		07/29/02	NA	NA	NA	NA	0.03840	NA	NA	NA	NA	
		10/30/02	NA	NA	NA	NA	0.0802	NA	NA	NA	NA	
		01/29/03	0.0308	0.0806	0.00100 M	0.00265	0.00462	0.00273	0.000200 M	0.00100 M	0.00100 M	0.0162
MW-10		04/30/03	0.0352	0.0889	0.00100 M	0.00306	0.00530	0.00390	0.000200 M	0.00100 M	0.00100 M	0.0199
		07/30/03	0.0570	0.351	0.00500 M	0.0359	0.0645	0.0351	0.000200 M	0.00500 M	0.00500 M	0.177
		10/29/03	0.0455	0.352	0.00100 M	0.0284	0.0616	0.0339	0.000200 M	0.00100 M	0.00100 M	0.154
		01/30/04	0.0527	0.143	0.00100 M	0.00629	0.0118	0.00820	0.000200 M	0.00100 M	0.00100 M	0.0601
		04/29/04	0.0468	0.0915	0.00100 M	0.00374	0.00723	0.00392	0.000200 M	0.00169	0.00100 M	0.0284
		07/26/04	0.0660	0.276	0.00624M	0.00772	0.0147	0.00961	0.000200 M	0.00192	0.00100 M	0.0708
		11/01/04	0.118	1.80	0.00154	0.223	0.366	0.142	0.000546	0.00318	0.00117	0.959

TABLE 4
GROUNDWATER ANALYTICAL - TOTAL METALS
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)
MW-10	02/01/02	0.00576	0.0204	0.00100 U	0.00149	0.00200 M	0.00308	0.000200 U	0.00100 M	0.00100 U	0.00563
DUP	02/01/02	0.00465	0.0128	0.00100 U	0.00103	0.00200 M	0.00226	0.000200 U	0.00100 U	0.00100 U	0.00500 M
	04/25/02	NA	NA	NA	NA	NA	0.00648	NA	NA	NA	NA
	11/27/02*	0.0187	0.553	0.00286	0.107	0.167	0.153	0.000200 U	0.00208	0.00122	0.465
	04/30/03	0.00672	0.0600	0.00100 M	0.00661	0.0116	0.0477	0.000200 M	0.00100 M	0.00100 M	0.0421
	07/30/03	0.00500 M	0.0254	0.00500 M	0.00520	0.00500 M	0.0123	0.000200 M	0.00500 M	0.00500 M	0.0155
	10/29/03	0.00496	0.0273	0.00100 M	0.00100 M	0.00200 M	0.00941	0.000200 M	0.00100 M	0.00100 M	0.00500 M
MW-12	01/31/02	0.0594	0.0804	0.00100 U	0.00138	0.00200 M	0.00175	0.000200 U	0.00100 M	0.00100 U	0.00500 M
	04/25/02	NA	NA	NA	NA	NA	0.00444	NA	NA	NA	NA
	07/29/02	NA	NA	NA	NA	NA	0.00860	NA	NA	NA	NA
DUP	07/29/02	NA	NA	NA	NA	NA	0.00768	NA	NA	NA	NA
	10/29/02	NA	NA	NA	NA	NA	0.0208	NA	NA	NA	NA
	01/28/03	0.0576	0.0886	0.00100 M	0.00337	0.00396	0.00618	0.000200 M	0.00100 M	0.00100 M	0.0115
	04/29/03	0.0624	0.0836	0.00100 M	0.00219	0.00300	0.00496	0.000200 M	0.00100 M	0.00100 M	0.0144
	07/29/03	0.0638	0.0476	0.00500 M	0.00500 M	0.00500 M	0.00187	0.000200 M	0.00500 M	0.00500 M	0.00500 M
	10/28/03	0.0704	0.130	0.00100 M	0.00992	0.0132	0.0188	0.000200 M	0.00200 M	0.00100 M	0.0318
	01/29/04	0.0736	0.0938	0.00100 M	0.00358	0.00456	0.00918	0.000200 M	0.00100 M	0.00100 M	0.0172
	04/29/04	0.0778	0.0683	0.00100 M	0.00136	0.00200 M	0.00192	0.000200 M	0.00100 M	0.00100 M	0.00500 M
	07/26/04	0.0698	0.101	0.00100 M	0.00449	0.00645	0.00694	0.000200 M	0.00100 M	0.00100 M	0.0170
	11/01/04	0.0702	0.226	0.00100 M	0.0223	0.0300	0.0218	0.000200 M	0.00100 M	0.00100 M	0.0657
MW-13	01/31/02	0.0551	0.254	0.00100 U	0.0156	0.0259	0.0138	0.000200 U	0.00100 M	0.00100 U	0.0648
DUP	01/31/02	0.0543	0.266	0.00100 U	0.0177	0.0279	0.0145	0.000200 U	0.00100 M	0.00100 M	0.0764
	04/25/02	NA	NA	NA	NA	NA	0.0109	NA	NA	NA	NA
DUP	04/25/02	NA	NA	NA	NA	NA	0.0150	NA	NA	NA	NA
	07/29/02	NA	NA	NA	NA	NA	0.4170	NA	NA	NA	NA
	10/29/02	NA	NA	NA	NA	NA	2.59	NA	NA	NA	NA
DUP	10/29/02	NA	NA	NA	NA	NA	2.02	NA	NA	NA	NA
	01/28/03	0.0608	0.0951	0.00100 M	0.00280	0.00422	0.00451	0.000200 M	0.00100 M	0.00100 M	0.0233
DUP	01/28/03	0.0608	0.0949	0.00100 M	0.00299	0.00361	0.00409	0.000200 M	0.00100 M	0.00100 M	0.0133
	04/29/03	0.0511	0.214	0.00100 M	0.0112	0.0174	0.0160	0.000200 M	0.00100 M	0.00100 M	0.195
	07/29/03	0.0397	0.0919	0.00500 M	0.00510	0.00500 M	0.00221	0.000200 M	0.00500 M	0.00500 M	0.0220
	10/28/03	0.105	0.721	0.00100 M	0.0586	0.115	0.0725	0.000200 M	0.00113	0.00100 M	0.268
	01/29/04	0.0720	0.216	0.00100 M	0.00948	0.0140	0.0139	0.000200 M	0.00100 M	0.00100 M	0.237
	04/28/04	0.0838	0.272	0.00100 M	0.0134	0.0257	0.0226	0.000200 M	0.00125	0.00100 M	0.0781
	07/28/04	0.0895	0.483	0.00637M	0.0458	0.0771	0.0459	0.000200 M	0.00100 M	0.00100 M	0.201
DUP	07/28/04	0.0685	0.353	0.00648M	0.0306	0.0516	0.0296	0.000200 M	0.00100 M	0.00100 M	0.136
	11/01/04	0.224	5.29	0.0100 M	0.628	1.03	0.767	0.000981	0.0100 M	0.0100 M	2.58

TABLE 4
GROUNDWATER ANALYTICAL - TOTAL METALS
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)
MW-14	01/31/02	0.0185	0.456	0.00100 M	0.0402	0.078	0.0332	0.000200 U	0.00100 M	0.00100 M	0.199
	04/24/02	NA	NA	NA	NA	NA	0.0140	NA	NA	NA	NA
	07/30/02	NA	NA	NA	NA	NA	0.2520	NA	NA	NA	NA
	10/29/02	NA	NA	NA	NA	NA	0.103	NA	NA	NA	NA
	01/29/03	0.0149	0.341	0.00100 M	0.0364	0.0604	0.0269	0.000200 M	0.00100 M	0.00100 M	0.168
	04/29/03	0.00954	0.328	0.00100 M	0.0228	0.0466	0.0231	0.000200 M	0.00100 M	0.00100 M	0.186
	07/29/03	0.00500 M	0.0485	0.00500 M	0.00500 M	0.00520	0.00100 M	0.000200 M	0.00500 M	0.00500 M	0.0148
	10/28/03	0.00451	0.130	0.00100 M	0.00703	0.0150	0.00590	0.000200 M	0.00100 M	0.00100 M	0.0382
	01/29/04	0.00456	0.162	0.00100 M	0.00888	0.0180	0.00797	0.000200 M	0.00100 M	0.00100 M	0.0495
	04/28/04	0.0146	0.349	0.00100 M	0.0294	0.0566	0.0289	0.000200 M	0.00173	0.00100 M	0.146
	07/26/04	0.00836	0.998	0.00635M	0.00866	0.0327	0.00606	0.000238	0.00103	0.00100M	0.0954
MW-15	11/01/04	0.101	2.60	0.0100 M	0.243	0.436	0.192	0.000223	0.0100 M	0.0100 M	1.29
	01/31/02	0.00951	0.262	0.00100 M	0.0224	0.0355	0.0133	0.000200 U	0.0011	0.00100 U	0.0938
	04/24/02	NA	NA	NA	NA	NA	0.0754	NA	NA	NA	NA
	07/30/02	NA	NA	NA	NA	NA	0.2270	NA	NA	NA	NA
	10/29/02	NA	NA	NA	NA	NA	0.0190	NA	NA	NA	NA
	01/29/03	0.0113	0.299	0.00100 M	0.0329	0.0464	0.0197	0.000200 M	0.00100 M	0.00100 M	0.142
	04/29/03	0.00359	0.0986	0.00100 M	0.00965	0.0109	0.00529	0.000200 M	0.00100 M	0.00100 M	0.0331
DUP	04/29/03	0.00322	0.0842	0.00100 M	0.00894	0.00905	0.00409	0.000200 M	0.00100 M	0.00100 M	0.0288
DUP	07/29/03	0.0361	1.34	0.0500 M	0.0858	0.145	0.0798	0.000200 M	0.0500 M	0.0500 M	0.553
DUP	07/29/03	0.0239	0.765	0.00500 M	0.0538	0.0971	0.0492	0.000200 M	0.00500 M	0.00500 M	0.274
DUP	10/28/03	0.0135	1.57	0.00100 M	0.0466	0.0792	0.0155	0.000200 M	0.00248	0.00100 M	0.302
DUP	01/29/04	0.00322	0.0942	0.00100 M	0.00874	0.00883	0.00374	0.000200 M	0.00100 M	0.00100 M	0.0288
DUP	04/28/04	0.00343	0.279	0.00100 M	0.0115	0.0167	0.00460	0.000200 M	0.00100 M	0.00100 M	0.0556
DUP	07/26/04	0.00810	0.186	0.00100 M	0.0147	0.0286	0.0112	0.000200 M	0.00100 M	0.00100 M	0.0790
DUP	11/01/04	0.0780	2.28	0.00100 M	0.261	0.370	0.110	0.000237	0.00477	0.00155	1.10
MW-16	02/01/02	0.116	0.354	0.00100 M	0.0465	0.0508	0.0312	0.000200 U	0.00100 M	0.00100 M	0.144
DUP	04/25/02	NA	NA	NA	NA	NA	0.00998	NA	NA	NA	NA
DUP	07/30/02	NA	NA	NA	NA	NA	0.120	NA	NA	NA	NA
DUP	07/30/02	NA	NA	NA	NA	NA	0.126	NA	NA	NA	NA
DUP	11/27/02*	0.120	3.69	0.00100 U	0.610	0.546	0.323	0.000265	0.00100 U	0.00100 U	1.40
DUP	01/28/03	0.0908	0.104	0.00100 M	0.00704	0.00652	0.00702	0.000400 M	0.00100 M	0.00100 M	0.0216
DUP	01/28/03	0.0891	0.135	0.00100 M	0.0121	0.0116	0.0106	0.000400 M	0.00100 M	0.00100 M	0.0367
DUP	04/29/03	0.0895	0.0885	0.00100 M	0.00698	0.00764	0.00828	0.000200 M	0.00100 M	0.00100 M	0.0247
DUP	07/29/03	0.116	5.83	0.100 M	0.718	0.764	0.466	0.000854	0.100 M	0.100 M	2.18
DUP	10/28/03	0.112	0.397	0.00100 M	0.0498	0.0511	0.0355	0.000200 U	0.00100 M	0.00100 M	0.130
DUP	04/28/04	0.106	0.0996	0.00100 M	0.00673	0.00614	0.00712	0.000200 M	0.00100 M	0.00100 M	0.0175
DUP	04/28/04	0.0994	0.116	0.00100 M	0.00811	0.00796	0.0102	0.000200 M	0.00100 M	0.00100 M	0.0248
DUP	07/26/04	0.120	0.338	0.00638M	0.0166	0.0139	0.0152	0.000200 M	0.00100 M	0.00100 M	0.0690
DUP	11/01/04	0.111	0.188	0.00100 M	0.0119	0.0112	0.00843	0.000200 M	0.00100 M	0.00100 M	0.0334

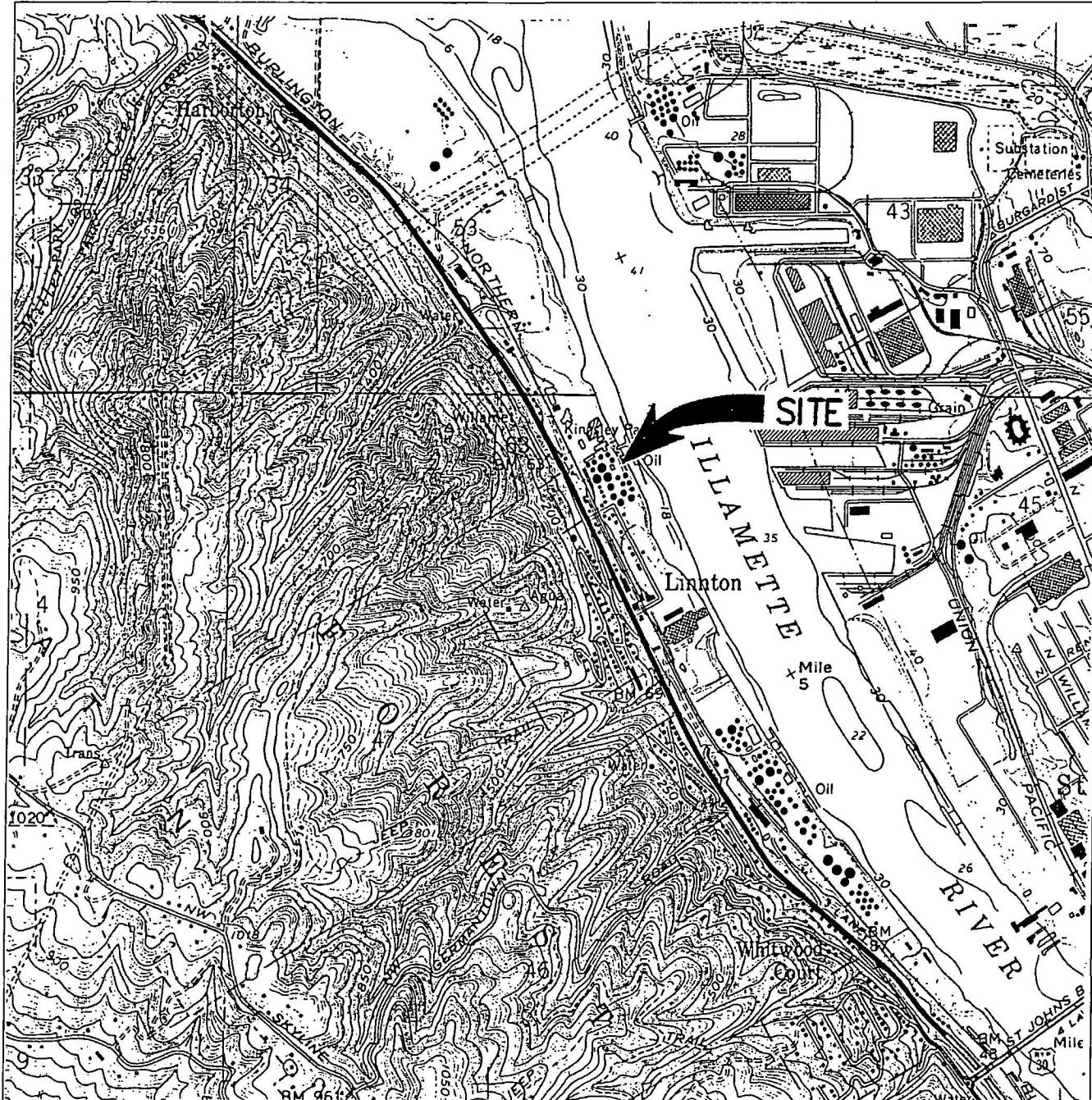
TABLE 4
GROUNDWATER ANALYTICAL - TOTAL METALS
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)
MW-17	01/31/02	0.00574	0.209	0.00100 U	0.00604	0.00954	0.00374	0.000200 U	0.00100 U	0.00100 U	0.0242
	04/24/02	NA	NA	NA	NA	NA	0.0106	NA	NA	NA	NA
	07/30/02	NA	NA	NA	NA	NA	0.0801	NA	NA	NA	NA
	10/30/02	NA	NA	NA	NA	NA	0.115	NA	NA	NA	NA
	01/29/03	0.00858	0.161	0.00100 M	0.0116	0.0177	0.0106	-0.000200 M	0.00100 M	0.00100 M	0.0558
	04/29/03	0.0109	0.133	0.00100 M	0.00694	0.0110	0.00589	0.000200 M	0.00117	0.00100 M	0.0358
DUP	04/29/03	0.0119	0.148	0.00100 M	0.00738	0.0120	0.00679	0.000200 M	0.00124	0.00100 M	0.0417
DUP	07/29/03	0.0338	0.477	0.00500 M	0.0461	0.0865	0.0465	0.000200 M	0.00500 M	0.00500 M	0.218
DUP	07/29/03	0.0213	0.203	0.00500 M	0.0170	0.0311	0.0139	0.000200 M	0.00500 M	0.00500 M	0.0733
	10/28/03	0.0308	0.820	0.00359	0.0802	0.164	0.0757	0.000200 M	0.00141	0.00100 M	0.401
	01/29/04	0.00429	0.125	0.00100 M	0.00510	0.00895	0.00484	0.000200 M	0.00100 M	0.00100 M	0.0295
	04/28/04	0.0136	0.216	0.00100 M	0.0137	0.0257	0.0123	0.000200 M	0.00129	0.00100 M	0.0736
	07/28/04	0.0235	0.268	0.00100 M	0.0213	0.0391	0.0178	0.000200 M	0.00128	0.00100 M	0.106
	11/01/04	0.0218	0.411	0.00100 M	0.0464	0.0866	0.0362	0.000200 M	0.00142	0.00100 M	0.223
MW-18	04/25/02	NA	NA	NA	NA	NA	0.0362	NA	NA	NA	NA
DUP	04/25/02	NA	NA	NA	NA	NA	0.0294	NA	NA	NA	NA
	07/29/02	NA	NA	NA	NA	NA	0.0094	NA	NA	NA	NA
	10/30/02	NA	NA	NA	NA	NA	0.0460	NA	NA	NA	NA
	01/29/03	0.00255	0.0930	0.00100 M	0.00340	0.00593	0.00269	0.000200 M	0.00100 M	0.00100 M	0.0178
	04/29/03	0.00935	0.329	0.00100 M	0.0248	0.0363	0.0230	0.000200 M	0.00100 M	0.00100 M	0.118
	07/30/03	0.0386	0.758	0.00500 M	0.0734	0.121	0.0655	0.000200 M	0.00500 M	0.00500 M	0.342
	10/29/03	0.0348	0.781	0.00100 M	0.0787	0.132	0.0694	0.000200 M	0.00100 M	0.00100 M	0.364
	01/30/04	0.00295	0.159	0.00100 M	0.00540	0.00916	0.00384	0.000200 M	0.00100 M	0.00100 M	0.0284
	04/28/04	0.00482	0.112	0.00100 M	0.00702	0.00950	0.00487	0.000200 M	0.00100 M	0.00100 M	0.0287
	07/26/04	0.00359	0.227	0.00100 M	0.00532	0.0124	0.00328	0.000200 M	0.00100 M	0.00100 M	0.0380
	11/01/04	0.0374	0.670	0.00100 M	0.0903	0.152	0.0565	0.000200 M	0.00189	0.00100 M	0.427
MW-20	05/01/03	0.00887	0.0290	0.00100 M	0.00156	0.00213	0.00230	0.000200 M	0.00100 M	0.00100 M	0.00834
	07/30/03	0.0149	0.107	0.00500 M	0.0131	0.0226	0.00896	0.000200 M	0.00500 M	0.00500 M	0.0442
MW-21	05/01/03	0.00571	0.108	0.00100 M	0.0123	0.0237	0.0297	0.000200 M	0.00100 M	0.00100 M	0.0641
	07/30/03	0.0119	0.120	0.00500 M	0.0134	0.0621	0.0269	0.000200 M	0.00500 M	0.00500 M	0.0467
MW-22	05/01/03	0.00377	0.0148	0.00100 M	0.00100 M	0.00200 M	0.00100 M	0.000200 M	0.00100 M	0.00100 M	0.00500 M
	07/30/03	0.0148	0.114	0.00500 M	0.0143	0.0195	0.0121	0.000200 M	0.00500 M	0.00500 M	0.0493
	10/29/03	0.00751	0.270	0.00100 M	0.0172	0.0354	0.0193	0.000200 M	0.00100 M	0.00100 M	0.0924
	01/30/04	0.00100 M	0.0116	0.00100 M	0.00105	0.00200 M	0.00100 M	0.000200 M	0.00100 M	0.00100 M	0.00575
	04/29/04	0.00861	0.0244	0.00100 M	0.00126	0.0245	0.00119	0.000200 M	0.00100 M	0.00100 M	0.0136
	07/26/04	0.0137	0.164	0.00631 M	0.0147	0.0311	0.0143	0.000200 M	0.00114	0.00100 M	0.0785
	11/01/04	0.116	0.0818	0.00100 M	0.00467	0.00903	0.00431	0.000200 M	0.00100 M	0.00100 M	0.0236
MW-23	07/26/04	0.0559	0.551	0.00663 M	0.0442	0.0498	0.0165	0.000200 M	0.00156	0.00100 M	0.152
	11/01/04	0.0562	0.755	0.00936	0.177	0.188	0.0641	0.000455	0.00132	0.00100 M	0.406
DUP	11/01/04	0.0535	0.730	0.00807 M	0.170	0.187	0.0630	0.000364	0.00100 M	0.00100 M	0.394

TABLE 4
GROUNDWATER ANALYTICAL - TOTAL METALS
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

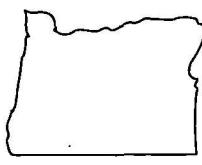
Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)
MW-24	07/26/04	0.118	2.64	0.0318 M	0.394	0.508	0.341	0.000243	0.00805	0.00500 M	1.31
	11/01/04	0.0616	2.48	0.00100 M	0.393	0.480	0.268	0.000372	0.00183	0.00135	1.29
RW-1	11/26/02*	0.0168	0.183	0.00100 U	0.00852	0.01990	0.00798	0.000200 U	0.00100 U	0.00100 U	0.0868
RW-2	11/26/02*	0.00760	0.206	0.00385	0.0104	0.0226	0.0105	0.000200 U	0.00100 U	0.00100 U	0.0795
RW-3	11/26/02*	0.00444	0.132	0.00100 U	0.00276	0.00711	0.00270	0.000200 U	0.00133	0.00100 U	0.0129

NOTES:
 Total Metals analyzed by USEPA Method 6000/7000 Series Method
 mg/l = Milligrams per liter
 NA = Not Analyzed
 J = Estimated Value
 U = Analyte included in the analysis but not detected above laboratory method detection limits (MDLs)
 M = Analyte included in the analysis but not detected above laboratory method reporting limits (MRLs)
Bold Face Font = Analyte detected above the MRLs
 * = Additional RI Sampling



REFERENCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP
LINNTON, OREGON, 1961
PHOTOREVISED 1984

SCALE 1 : 25,000



QUADRANGLE LOCATION

FIGURE 1

SITE LOCATION MAP

Kinder Morgan Liquid Terminals LLC - Linnton Terminal
11400 NW St. Helens Road
Portland, Oregon

PROJECT NO. PTKM-001-3.0001	DRAWN BY CRF	Delta Environmental Consultants, Inc.
FILE NO.	PREPARED BY CRF 11/13/03	
REVISION NO.	REVIEWED BY	

